CONSTRUCTION NEWS

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RAILWAYS.

ALABAMA.—A railroad is to connect Selma and Bessemer. Route plans are completed for aotu 80 miles. George H. Clark, Birmingham, Ala., is Engr.

ALABAMA.—We are advised that plans for extensive railroad construction for the Tidewater R. R. in southern Alabama near Birmingham are well under way. The scheme also includes the building of deep water terminals at Dauphine Island. Total cost, about $8,000,000. Dauphine Island Ry. & Harbor Co. is the contracting company for the terminal work. Capt. T. W. Nicol, of Mobile, Ala., is Ch. Engr. J. M. Dewberry, Birmingham, is a promoter.

ATLANTIC COAST LINE R. R.—W. E. Renneker, Charleston, N. C., Division Freight Agent, officially announces that plans have been made for double tracking from Mount Holly to Bonneau, about 12 miles. E. B. Pleasants, Wilmington, N. C., is Ch. Engr.

CHESAPEAKE & OHIO RY. CO.—The contract for 17 miles of steam shovel work near Augusta, Ky., has been awarded to RINEHART & DENNIS CO., Evans Bldg., Washington, D. C. F. I. Cabell is Ch. Engr. M. of W., Richmond, Va.

CHICAGO, BURLINGTON & QUINCY.—Press reports state that the Burlington is planning to extend its line from Elmer, Macon County, Mo., which is its present terminus, through Moberly and Columbia and then connect at St. Louis with the line operating from that city to Mexico. W. L. Breckinridge, Chicago, Ill., is Engr. M. of W.

DELAWARE, LACKAWANNA & WESTERN R. R.—This company contemplates the elimination of the grade crossing at Morris St., Morristown, N. J.

DUNKIRK, ALLEGHENY VALLEY & PITTSBURG R. R.—An extension costing $2,100,000, will be constructed to Oil City or Franklin, Pa., from Titusville to make connection with the Lake Shore & Michigan Southern. Samuel Rockwell, Cleveland, Ohio, is Ch. Engr.

ERIE R. R.—The grade crossings on the Niagara Falls and International Bridge Division in Buffalo, N. Y., which are to be eliminated, are at Walden Ave., Genesee St., Doab St., Kensington Ave., Main St., Military Road, East Ferry St. and East Delavan Ave. F. L. Stuart, 50 Church St., New York, N. Y., is Ch. Engr.

GEORGIA.—A new company, Wrightsville, Adrian & Lyons R. R., has been formed to build a road from Wrightsville to Lyons, about 40 miles, also a number of extensions. About 35 miles of grading is finished. The work will be done by company forces. T. J. James, of Adrian, is Pres.

KANSAS.—Press reports state that right-of-way has been secured for a line from Hardtner to a point about 100 miles west, passing through Barber, Comanche, Clark and Meade Counties. A. A. White, Coldwater, is Gen. Mgr., and Titus Company, engineers, of Arkansas City, are in charge.

LEHIGH & NEW ENGLAND R. R.—The contract for grading about 32 miles of line between Danielsville and Tamaqua, Pa., has been awarded to MAC ARTHUR BROS. CO., 11 Pine St., New York. A portion of the work will be sublet; the local offices of the company being at Lehighton, Pa. Rollin H. Wilbur, Philadelphia, Pa., is Vice-Pres. and Gen. Mgr. of the Lehigh & New England. Noted Sept. 29.

LEHIGH VALLEY R. R.—Work will soon begin on the extension of the four-track system of this company by J. A. KELLEY & CO., contractors in charge. The extension will connect Bethlehem to Mauch Chunk, Pa. The cost of the work between Camenton and Laury is about $500,000, the work between these points being heavy. The entire cost of the line is estimated at $2,000,000. E. B. Ashby is Ch. Engr.

MIDLAND VALLEY R. R.—For several months surveying parties have been in the field working on the proposed extension from Arkansas City through McPherson and Wichita to Kansas City, and also an extension ultimately from Fort Smith to the gulf. At McPherson the road will connect with the Union Pacific. A number of Philadelphia capitalists, who backed the construction of the old Choctaw, Oklahoma and Gulf road from Memphis, Tenn., to Amarillo, Tex., are behind the Midland Valley, including its president, C. E. Ingersoll, Franklin Bank Bldg., Philadelphia, Pa. C. Kaighn, Muskogee, Okla., is Engr.

MINNEAPOLIS, ST. PAUL & SAULT STE MARIE.—An important branch is to be built north from the line between Duluth and Thief River Falls, according to press reports. It will start near Portage Lake, cross the Great Northern at Bena and Cass River at Winnebigoshish dam and extend on into the Round Lake and Cut Foot Sioux country. It is believed that ultimately the branch will be extended to the international border. Thomas Green, Minneapolis, Minn., is Ch. Engr.

MINNESOTA.—Articles of incorporation have been filed by the Minnesota Northern Ry. Co., of Virginia, Minn. The corporation is capitalized at $25,000 and will build logging lines in Northern Minnesota. The incorporators are Edward Hines, Geo. E. Lindsay and Geo. Dupres, all of Virginia.

NATIONAL RAILWAYS OF MEXICO.—It is reported that the branch line of this road, which is being constructed from Durango to Llano Grande, 75 miles, will be extended southwest another 50 miles as soon as the work on the present line is finished. The new road will ultimately be extended to the port of Mazatlan, on the Pacific Coast, if a feasible route across the high Sierra Madre range can be found, it is said. James M. Reid, Mexico City, Mex., is Ch. Engr.

NEVADA.—Advices have been received by A. D. Goodenough, Gen. Mgr. of the Lida Valley R. R. Co., assuring him that $230,000 has been secured for the construction of a road from Stonewall, a point on the Tonopah & Tidewater & Las Vegas road about three miles below Cuprite to Hornsilver and Lida.

NEW YORK CENTRAL & HUDSON RIVER R. R.—Improvements costing $42,000,000 have been planned by the New York Central lines, consisting principally of freight terminals on the west side of New York City, according to Clyde Brown, counsel for these lines. Part of this sum, it is said, will be used for improving the 33d St. freight terminal. Geo. W. Kittredge is Ch. Engr., Grand Central Station, New York.

NORTHERN PACIFIC RY.—Surveys have been made for an extension of this line to Mott, N. Dak., and it is reported that it will be later extended to Terry on the Yellowstone River, and will give the Northern Pacific an alternate main line to the coast. With the completion of a line that has been surveyed from La Moure to a point below the Cannon Ball Junction, the distance to the coast also will be shortened. With the pushing of the Mott line down the Cannon Ball River the Northern Pacific simultaneously built a line up the river. Track has been laid for 20 miles on this line running north of Mandan, although the surfacing is yet to be done. The route has been surveyed for 65 miles. It is also reported that surveys are to be made of the lands granted to this company for a line connecting Kittitas, Chelar, King and Snohomish counties in Washington and a point immediately north of the Yellowstone National Park in Montana.

Pres. Howard Elliott, St. Paul, Minn., has approved the expenditure of upwards of $2,000,000 for the construction of 35 miles of new main line, all double tracked, between Tacoma and Tenino, Wash. Surveys have been made. A tunnel will be built in Tacoma, about one-half mile long. W. L. Darling, St. Paul, Minn., is Ch. Engr.

NUECES RIVER VALLEY R. R.—We are officially advised that the contract for building this road from Aransas Pass to Eagle Pass, Tex., by way of Oakville and Catula, 253 miles, has been awarded to ROBERT A. LYSLE & CO., First National Bank Bldg., Chicago, Ill. Wm. A. Frisby is Pres., and George A. Hall is Ch. Engr., both of Beeville, Tex. Noted Oct. 27.

OKLAHOMA.—According to N. H. McCoy, Secy. of the Ardmore Commercial Club of Ardmore, Okla., a line between Ardmore and Chickasha will be built during the coming year by the Arbuckle & Western Ry. The proposed route has been surveyed.

PENNSYLVANIA.—According to press reports the Pittsburg & Susquehanna Valley R. R. will extend from the present terminus in Clearfield County, to Patton, Cambria County. Surveyors have been at work in the region of Patton and Coalport for some time.

ROCK ISLAND CO.—We are advised that surveys have been made for a 60-mile line from Des Moines to Allerton, Iowa, where it will connect with the Kansas City line. It is thought that the route of this line will be through Carlisle, Dallas and Chariton to Allerton. J. B. Berry, Chicago, Ill., is Ch. Engr.

ST. LOUIS & SAN FRANCISCO R. R.—An officer reports that this company will build from Quanah, Tex., to Los Angeles, Cal., about 1,000 miles, using surveys made a number of years ago. One of the surveyed routes is by way of Albuquerque, N. Mex., and the other by way of Phoenix, Ariz. The Albuquerque route would mean construction almost due west practically paralleling the Santa Fe. The Phoenix route would be more direct and would traverse for some distance country comparatively undeveloped by railroads. The Frisco has just sold bonds to the amount of $7,000,000. B. F. Yoakum, New York, N. Y., is Ch. of Board, and Ch. Ex. Com. F. G. Jonah, St. Louis, Mo., is Ch. Engr.

SOUTHERN PACIFIC CO.—A line of about 70 miles is projected from Wood River to Camas Prairie, Idaho. It is supposed work will begin in the spring. The preliminary surveys have also been completed for a line from Eugene to Marshfield, Ore., about 130 miles. The location survey will begin at once. Wm. Ashton, Salt Lake City, Utah, is Ch. Engr.

TEXAS.—The Temple Northwestern Ry. Co., we are officially advised, has awarded the contract for about 40 miles of grading to D. J. GRIGSBY, Dallas, Tex. Surveys have been made for the entire route, 130 miles, and the right-of-way obtained for 100 miles. The work is light. Geo. E. Wilcox, Temple, Tex., is Pres. and W. E. Dozier, Temple, Tex., is Ch. Engr. and Gen. Mgr. Noted Jan. 5 under Electric Railways.

VIRGINIA.—A line from Norton to Wise, Wise County, about eight miles, also an extension of about 15 miles into Dickenson County is planned by the Kentucky-Virginia R. R. This company is further planning to build from Norton up the Guest River into the region of the Virginia Coal & Iron Co., about 10 miles.

WESTERN MARYLAND RY.—It is reported that most of the right-of-way has been secured for an extension from York, Pa., across Codorus Creek in the vicinity of Queen St., continuing to the northern end of North York borough, where a terminal will be built. H. R. Pratt is Ch. Engr., Baltimore, Md.

ELECTRIC RAILWAYS.

SWANSEA, MASS.—The Providence & Fall River St. Ry. Co. is seeking permission to build a line to North Swansea. A. C. Dole, Swansea Center, is Supt.

LUDLOW, MASS.—A franchise to build street car lines in certain streets has been granted to the Springfield St. Ry. Co. L. S. Stoors, Springfield, Mass., is Pres.

HARTFORD, CONN.—A charter has been applied for, it is reported, by the Hartford-Meriden Ry. Co., the incorporators of which are Wm. Foley, C. D. Lawrence, Thos. Dryden and J. J. Molone. The object of this company is to build a line connecting Hartford, Newington, New Britain, Berlin and Meriden.

GRANVILLE, N. Y.—The Rutland Ry. Light & Power Co. will, according to press reports, extend its tracks from Poultney, Vt., to Granville, N. Y., about nine miles. J. Loftus, Rutland, Vt., is Ch. Engr.

SLATINGTON, PA.—The Lehigh Valley Transit Co. will build, it is reported, an extension from this place to Lehigh Gap, Palmerton and Lehighton, where it is believed a connection with the Carbon Transit Co. will be made. W. W. Wysor, Allentown, Pa., is Ch. Engr.

MONTGOMERY, PA.—Press reports state that the Lewisburg, Milton & Watsontown Passenger Ry. Co., Milton, Pa., will build a line between Montgomery and Watsontown and ultimately to Muncy and Montoursville. Chas. S. Johann, Philadelphia, Pa., is Ch. Engr.

PATTON, PA.—Several connecting links are in prospect for Cambria County. The North Cambria St. Ry. Co., which connects Patton and Barnesboro with a branch to Carrolltown, contemplates the construction of a 17-mile line to Altoona by way of Wopsononock. This will be through a rough country. The same company also has under consideration the building of a line from Carrolltown to Ebensburg, the county seat, a distance of ten miles. At the same time the South Cambria Ry. Co. contemplates an extension from Southfork to Ebensburg, about ten miles. F. R. Newman, Johnstown, Pa., is Gen. Mgr. of the Southern Cambria Ry. Co. W. H. Denlinger, Patton, Pa., is Pres. of the Northern Cambria Street Ry. Co.

PITTSBURG, PA.—The West Penn Rys. Co. plans an extension connecting Bitner, Vance Mills, West Newton and Hunkers, about 20 miles. J. L. Fritsch, Pittsburg, Pa., is Ch. Engr.

MEMPHIS, TENN.—An electric railway, it is reported, will connect Jackson, Nashville and Memphis. The proposed line will be built by the Tennessee Traction Co., about 200 miles. George E. Busnell, of Memphis, is Gen. Mgr.

NASHVILLE, TENN.—We are advised that the Nashville Gallatin Interurban, newly incorporated, will build about 30 miles of road from this town to Gallatin. It is also understood that four bridges will be built. H. H. Mayberry, Franklin, Tenn., is interested.

SPRINGFIELD, TENN.—J. M. Gray, Franklin, Tenn., is interested in a proposed railway between Nashville, Lewisburg, Clarkville and Springfield. About 110 miles. The line is to be built by the Tennessee Rapid Transit Co.

ALLIANCE, OHIO.—A line is projected from Alliance to Ravenna, Ohio, about 20 miles. The construction of this line will be started in the near future. The ultimate terminus will be in Cleveland, but the Alliance-Ravenna line will be built first. C. R. Morley, Cleveland, Ohio, Pres. of the Stark Electric R. R. Co., is interested.

COLUMBUS, OHIO.—Bids were opened Jan. 6 by Director of Service, Holton, for laying a street car track in West Broad St., between Glenwood Ave. and Yale Ave., as follows: COLUMBUS RAILWAY & LIGHT CO., Columbus, $4,162 (awarded contract); D. Sullivan & Son, Columbus, $7,700.

FOSTORIA, OHIO.—The Toledo, Fostoria & Findlay Ry. Co. is planning to build a line from Fostoria to Prairie Depot, Ohio, about ten miles. F. W. Adams, Fostoria, Ohio, is Vice-Pres. and Gen. Mgr.

IRONWOOD, MICH.—The Twin City General Electric Co. will build an extension to Bessemer, about six miles, later in the year. E. D. Nelson, Ironwood, is Pres. and Gen. Mgr.

CHICAGO, ILL.—Dwight H. Perkins and associates of the Chicago Subway, Arcade & Traction Co. are seeking a franchise to construct passenger and freight subways.

NORRIS, ILL.—The Illinois Central Electric Ry. will build, according to press reports, a line from Norris to Farmington, Ill., about eight miles. G. W. Chandler, Canton, Ill., is Ch. Engr.

BALDWIN, KAN.—It is reported that a 20-mile electric line is projected, for which plans are being made. This will connect Baldwin, Black Jack, Edgerton, Gardner and Olathe. Dr. H. L. Murlin, Baker University, this city, is interested.

MANHATTAN, KAN.—The extension from Manhattan to Fort Riley, about 15 miles, will be made this year. Joseph T. West, Manhattan, Kan., is Gen. Mgr. of the Manhattan City & Interurban Ry. Noted Aug. 22.

COLUMBIA FALLS, MONT.—Work will begin in the early spring, it is reported, on a line, about 70 miles long, between Columbia Falls and Polson. The line will be along the east side of Flathead Lake.

HOUSTON, TEX.—The Houston Electric Co. contemplate the extension of its Washington St. line to the tracks of the Southern Pacific Co. Stone & Webster, Boston, Mass., are the managers.

Proposed Improvements in Milwaukee.

For several years past the city desired to build a municipal light plant; having been delayed by an injunction which has now been cleared up, the budget for 1911 again provides for the building of a plant. The city owns a suitable site which was purchased for this purpose some years ago. It is proposed to erect thereon a plant with a capacity of 3,000 arc lights and for a beginning, appropriations of $550,000 have been made.

The Water Department expects to lay about three or four miles of large feeder mains in addition to the usual amount of small mains which are needed to supply residents with water in newly annexed territory.

There will only be one bascule bridge built during the coming year. It will cross the Milwaukee River at Oneida St., and will be of the fixed trunnion type. The city has recently built several bascule bridges and rebuilt the 16th St. viaduct.

Much street paving will be done the coming season; the city contemplates purchasing a quarry and gravel pit, also an asphalt plant. The amount set aside for street work is $420,000, which is to pay for street intersections and in front of city property; the balance being assessed against abutting lots.

Grade crossing elimination work will be continued in the southern part of the city, the railway companies and the city, together with the State Railway Commission, having the matter under consideration, and it is confidently expected that an agreement will shortly be reached.

The work of building the belt line around the city by the Chicago & Northwestern Ry., will be continued and completed by the end of the year.

An interurban electric line from Beaver Dam to the city will be probably built, right of way for it being now secured.

The Commission of Sanitary Engineers will probably make a report early in the spring. The Commission was appointed to report on and advise the city on plans of purifying the sewage before it is discharged into Lake Michigan and prevent the contamination of the water supply. This will mean extensive work and a great outlay of money, which must be done in the near future.

Large outer harbor improvements were intended for which Mr. I. Randolph made plans, but owing to lack of funds, only a limited amount is contemplated during the coming year.

HAGERMAN, IDAHO.—A line from Hagerman to Wendal, Idaho, is projected by J. Calhoun, Boise, Idaho.

SOUTH BEND, WASH.—An electric car line is projected. J. D. Creary is interested.

SUTHERLIN, ORE.—An electric railway and power plant is contemplated. M. M. Valerius, Sutherlin, Ore., and G. E. Fosbroke, St. Paul, Minn., are interested.

MONTROSE, CAL.—A line is projected from Montrose to Delta, Cal., about 30 miles. This line will follow the west side of the Uncompahgre River. Press advices are to the effect that M. L. Paret, Kansas City, Mo., has charge of the engineering work. J. M. Pepper, Montrose, Cal., is interested.

LOS ANGELES, CAL.—The franchise for an electric railroad from Glendale to Burbank has been ordered advertised by the Board of Supervisors upon application of Chas. E. Salisbury. It will run most of the way on a private right-of-way, but a county franchise is wanted along Fourth St., Burbank, for a short distance, and across several county highways. The line will be operated by the Pacific Electric Ry. Co. Geo. E. Pillsbury, Los Angeles, is Ch. Engr.

PASADENA, CAL.—Geo. C. Martin, of Pasadena, announces an electric railroad will be built from Washington St. to the mouth of Eatons Canyon, by the Pacific Electric Ry. Co. A bonus of $35,000 demanded by the company has been raised and surveys for the line have been made.

LIGHT AND POWER PLANTS.

BOSTON, MASS.—The bids for lighting the streets of the city, for ten years, opened Dec. 24, by L. K. Rourke, Supt of Streets, have been rejected. They will be readvertised under modified specifications. Noted Dec. 29.

WAKEFIELD, MASS.—The town is facing the alternative of expending $7,500 for a new electric light plant or buying its light from Reading, which Reading may sell in exchange for gas from the Wakefield Municipal plant.

HUNTINGTON, MASS.—Eugene E. Davis, Northampton, Mass., has recently acquired title to Stowell's Flats with the water rights, according to press reports. He contemplates the erection of a power plant.

PUTNAM, CONN.—The Putnam Light & Power Co., will, according to press reports, spend a considerable sum in improvement additions. A stock issue of $50,000 and a bond issue of $175,000 have been authorized. A. Duprez, Putnam, Conn., is Ch. Engr.

ALBIA, N. Y.—A contract has been awarded to SUTHERLAND & KELLY, Troy, N. Y., to build a steel flume to conduct water from Smart's Pond to Burden's Pond.

EASTHAMPTON, N. Y.—The Easthampton Electric Light Co., Easthampton, N. Y., is asking permission to issue $14,000 bonds for improvements. N. N. Tiffany, Easthampton, is Mgr.

NEW YORK, N. Y.—The Bronx Gas & Electric Co. has been granted permission by the Public Service Commission to sell $154,000 of bonds.

PITTSTOWN, N. Y.—Permission has been given the Hoosic River Electric Light & Power Co., Schaghticoke, N. Y., to furnish light and power in Pittstown. This company is controlled by the Schenectady Power Co., Hoosic Falls, N. Y. Geo. E. Green, Hoosic Falls, N. Y., is Pres.

HASTINGS, PA.—A municipal lighting plant is under consideration.

PHILADELPHIA, PA.—The Mayor has approved a plan to install more brilliant lights in 52d St. West, Philadelphia.

SCRANTON, PA.—Bids will be received by Eugene D. Fellows, Secy., Scranton Bd. of Control, until 7.30 p. m., Jan. 23, for installing a heating and ventilating system in No. 16 school in accordance with plans and specifications of John J. Harris, Mechanical Engineer.

WASHINGTON, D. C.—Bids were received as follows on Jan. 10 by the Commissioners of the District of Columbia for the equipment of a heating and power plant for the school buildings on M. St., Washington, D. C.: (a) Construction of boiler-house and installation of two 250-HP. boilers; (b) pipe and valve work: George Wyne, Washington, D. C., (a) $23,075; Evans, Almirall Co., New York, (a) $21,970, (b) $10,699; Davis Construction Co., Washington, D. C., (a) $22,873; York Engineering Co., York, Pa., (a) $24,778, (b) $9,146; Biggs Heating Co., Washington, D. C., (a) $27,688, (b) $12,468; John W. Danforth, Buffalo, N. Y., (a) $22,400, (b) $12,200; Hoge & Luebkert Co., Washington, D. C., (a) $25,765; Upton & Smoot Construction Co., Washington, D. C., (a) $22,296; Randolph E. Jennings, Washington, D. C. (a) $19,710 (part); Dowd Bros., Washington, D. C., (b) $9,775; Crook, Kreis & Co., Baltimore, $16,377.

ROANOKE, VA.—The Roanoke Gas & Water Co., according to press reports, will expend about $150,000 for improvements, including construction of a 750,000 cu. ft. gas holder. J. P. Hancock, Roanoke, Va., is Mgr.

MATOAKA, W. VA.—The Matoaka Electric Power Co. has been incorporated to construct water-works, electric light, power and heating plant. The incorporators include: John R. Parrott, Roanoke, Va., and James C. Stras, Matoaka, W. Va.

WARRENTON, N. C.—The Warrenton Electric Light Co. has been incorporated to construct lighting system, etc. The incorporators include: W. L. Rogers and J. W. White.

CHARLESTON, S. C.—Bids were received as follows on Jan. 13, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for wiring at Charleston, S. C.: Hazelhurst Electric Co., Charleston, S. C., $3,635; R. F. Fletcher, Columbus, Ohio, $7,800.

FORT SCREVEN, GA.—Bids will be received by the Constructing Quartermaster, Fort Screven, Ga., until Jan. 30, for construction and installing an electric light system at Fort Screven, Ga. A deposit of $15 will be required for plans and specifications.

MILLEDGEVILLE, GA.—Bids will be received at the office of the Supervising Architect, Treasury Department, Washington, D. C., until Feb. 8, for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring of the U. S. post-office at Milledgeville, Ga.

BOWLING GREEN, KY.—Bids will be received by the Superv. Arch., Treasury Dept., Washington, D. C., until Jan. 21 for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at Bowling Green, Ky.

FRANKFORT, KY.—A franchise has been granted to E. M. Wallace to construct and operate an electric light plant in Frankfort.

MIDWAY, KY.—E. M. Wallace, who has been granted a franchise in Frankford has applied for a franchise in Midway. See item above.

MARION, IND.—The Marion Light & Heating Co., has been granted a 35-year franchise to supply current for power purposes. A contract with the company to supply day service for six months has been made by the city. S. H. Smith, Marion, Ind., is Mgr.

ESCANABA, MICH.—The city has advertised for a site for the proposed municipal gas plant and an architect has been ordered to prepare plans. The $30,000 bonds issue, authorized at the last spring election for the purpose of building the plant, has been sold.

HILLSDALE, MICH.—Bids will be received by the Superv. Arch., Treasury Department, Washington, D. C., until Feb. 3, for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring of the U. S. Post Office at Hillsdale, Mich.

MUSKEGON, MICH.—F. F. Van Tuye, Detroit, Mich., has been engaged by the city authorities to prepare plans and specifications for a municipal electric plant.

PONTIAC, MICH.—The Eastern Michigan Edison Co., has purchased acres of land near Pontiac, on which it proposes to erect a power plant to supply electricity in Pontiac, Mount Clemens, Royal Oak, Utica and Rochester for commercial purposes. J. C. Hoetger, Mt. Clemens, Mich., is Gen. Mgr.

MT. VERNON, ILL.—The Citizens' Gas, Electric & Heating Co., of this place, owned by the Trowbridge-Niver Co., Chicago, Ill., has been sold, so it is reported to Henry L. Doherty & Co., 60 Wall St., New York, N. Y.

STREATOR, ILL.—Press advices are to the effect that the Illinois Valley Gas & Light Co., will erect a new power plant to cost $250,000. M. G. Neff, Streator, Ill., is Ch. Engr.

KAUKAUNA, WIS.—A municipally owned electric lighting plant is favored by the citizens.

PRAIRIE DU SAC, WIS.—This Wisconsin River Power Co., is making surveys for a dam across the Wisconsin river near this place. The dam will probably be 1,500 ft. long, with a 1,000 ft. spillway. About 26,000 HP. will be developed from the head of 25 ft. R. G. Waller, Prairie Du Sac, Wis., has charge of the work.

RIO, WIS.—A lighting plant will be built here, according to press reports, by the Columbia Electric Light & Power Co., of Pardeeville, Wis. The installation will include a 150-HP. boiler, one 125-HP. Corliss engine, one 100-KW. 3-phase 60-cycle AC. generator and necessary accessories. Myron L. Aldrich, Pardeeville, Wis., is Supt.

VIOLA, WIS.—C. R. Thomson, Richland Center, Wis., is making plans for a municipal electric light plant. A dam across the Kickapoo River is planned.

WATERTOWN, WIS.—Bids will be received by the Superv. Arch., Washington, D. C., until Feb. 7, for the construction including electric wiring of the U. S. Post Office at this place.

WAUPACA, WIS.—A municipal electric lighting plant is under consideration.

ST. PAUL, MINN.—The city authorities have let the contract for lighting the streets of the city as follows: The ST. PAUL GAS CO., for supplying electricity for ornamental street lamps at $75 each per year; also for arc lamps served by overhead wires at $75 per lamp per year; arc lamps with underground service at $90 each per year. The contract for gas lighting was awarded to the PATTERSON STREET LIGHTING CO. The reduction in the cost of electric lamps will be about $9,000 from the present contract.

BEATRICE, NEB.—Bonds have recently been voted for a water supply system and an electric lighting plant is being advocated in connection with the new water plant.

HOLDREDGE, NEB.—Bids will be received until Feb. 2 at the office of the Suprv. Arch., Washington, D. C., for construction, including electric conduits and wiring of the U. S. Post Office at Holdrege, Neb.

MANDAN, N. DAK.—A municipal electric lighting plant is under consideration.

SPRINGFIELD, MO.—A. J. Zwart, of St. Louis, Mo., is reported interested in the construction of an electric power plant on the White River, near Springfield, to cost about $1,000,000. H. M. Smith and Senator F. M. McDavid are also interested.

HEARNE, TEX.—An issue of bonds has been voted to provide for the construction of a water supply system and electric lighting plant.

ROSWELL, N. MEX.—Bids will be received by the Suprv. Arch., Treasury Department, Washington, D. C., until Feb. 2, for the construction, including electric conduits and wiring of the U. S. Post Office and Court House at Roswell, N. Mex.

ABERDEEN, WASH.—The Citizens' Lighting & Power Co., has applied to the City Council for a franchise to construct and operate an electric lighting plant.

NORTH YAKIMA, WASH.—Plans have been completed by the Pacific Power & Light Co., for enlarging and improving the hydroelectric plant at Priest Rapids. G. C. Arrowsmith, North Yakima, Wash., is Supt. of the Yakima Division.

SPOKANE, WASH.—Bids will be received by John Gifford, City Purchasing Agent, until Jan. 20, for machinery and equipment as follows: Two 14-in. single suction, horizontal shaft, two-stage centrifugal pumps; one 900-HP., 2200-volt, 60 cycle, 3-phase induction motor; one cast-iron base plate; two 450-HP. flexible couplings; one switchboard panel, 65 × 24½ in., ⅝ in. level, mounted 25 in. from the floor, with all necessary wiring and the following apparatus: One ammeter, 400-amp; one automatic oil switch, one set brass bars, two current transformers, one card holder, one name plate, one set starting resistance and all necessary connecting cables between switchboard and motor and between motor and starter, valves, pipe connections. Also one 3,000,000-gal., two-stage, horizontal shaft pump. Plans and specifications are on file in the office of the Bd. of Pub. Wks., Spokane, Wash.

SPOKANE, WASH.—The Spokane Falls Gas Company will, according to press reports, expend a considerable sum in improvements on its plant at Erie and Bradley Sts. A. Cantril is Mgr.

TACOMA, WASH.—Bids will be received at the office of the Commissioner of Light & Water, City Hall, Tacoma, Wash., until 2 p. m., Feb. 6th, for a general contract for the completion of the Nisqually Power Plant, viz: Bridge, 200 ft. steel arch span, and two 80-ft. approach spans, and a 10 ft. riveted steel pipe, across the Nisqually Canyon, at La Grande, Wash. Estimated cost, $44,890. Conduit and Reservoir. A reinforced concrete conduit 943 ft. long, a regulating reservoir with concrete retaining walls and reinforced concrete floor, together with the necessay gates, gate houses, flushing system, waste channel, employees quarters building and a spur track from the Tacoma Eastern R. R., 1440 ft. long. Estimated cost, $292,675. Pressure Pipes. The building of our riveted steel pressure pipes, each about 790 ft. long and ranging in size from 72 ins. to 60 ins. and one 24 in. pipe about 780 ft. long together with the necessary valves, connections, drains, gutter and anchor piers. Estimated cost, $116,696. Power House. A power house including two electric cranes, and a 350 ton cableway across the Nisqually River Canyon. Estimated cost, $149,875. Water Wheels and Generators. The furnishing and installation, complete in every detail of the water wheels and generators of 32,000 HP. capacity. Estimated cost, $183,185. Electrical Equipment for Power House. The furnishing and installation of the electrical equipment, appliances and connections for he power house, complete in every detail, except the generators mentioned under Water Wheels and Generators. Estimated cost, $89,423. Electrical Equipment for Tacoma Sub-station. The furnishing and installation of the electrical equipment, appliances and connections, complete in every detail for the Tacoma Substation. Estimated cost. $107,690. Transmission Line. The furnishing of all materials and the construction of a 55,000 volt, 2 circuit transmission line about 30 miles long from the power house at La Grande to the substation at Tacoma, Wash. Estimated cost, $95,345. The successful bidder on the above general contract shall agree to accept at par in payment thereof Tacoma Electric Light and Power Fund Warrants, bearing interest at 5 per cent. Proposals must be made on printed forms which will be furnished by the Commissioner on application and be accompanied by a certified check made payable to the Commissioner for five per cent. of the sum bid. Copies of the plans and specifications may be obtained from the Commissioner upon the deposit of the following sums, which will be returned to unsuccessful bidders upon return of plans and specifications, to-wit: Section I, $25; Section II, $50; Section III, $25; Section IV, $50; Section V, $25; Section VI, $50; Section VII, $50; Section VIII, $25. Nicholas Lawson, is Comr. of Light & Water. Hamilton F. Gronen, is Ch. Engr.

VANCOUVER, WASH.—The Cascades Light & Power Co., has been incorporated to develop a waterpower on the north fork of Lewis River, to furnish electric power. W. W. Arnold and W. P. Connaway, Vancouver, Wash., are among the incorporators.

WALLA WALLA, WASH.—Press advices are to the effect that the electric light distribution system of the Pacific Power & Light Co., will be rebuilt this spring at a cost of about $9,000. W. B. Forshay is Local Mgr.

PORTLAND, ORE.—The Portland Light & Power Co. is contemplating a total expenditure of more than $4,000,000 for improvements. The company is engaged in preliminary work on the Upper Clackamas River. At a point three miles above the Cazedero station, a gravity type concrete dam is to be constructed which will be 160 ft. high and 750 ft. long. The head will be about 135 ft. J. R. Wood, Portland, Ore., is Pur. Agent.

GREENVILLE, CAL.—The Indian Valley Light & Power Co., contemplated extending its system to Taylorsville, Crescent and Seneca. C. G. Zschockelt, Greenville, Cal., is Engr.

LONG BEACH, CAL.—The Southern California Edison Co., will soon begin the erection of a $150,000 structure in addition to the large buildings already completed and in course of construction.

HAMILTON, ONT.—The Dom[illegible] Power & Transmission Company is ma[illegible] lans for extension and improvements [illegible] plant, which will involve an expend[illegible] of about $350,000. A new substation w[illegible] built in Hamilton at a cost of about [illegible]

BOWMANVILLE, ONT.—A [illegible] se has been granted to the Seymour [illegible] Light & Power Co., Ltd., to erect a[illegible] ic light and power plant here.

KINGSTON, ONT.—The wat[illegible] ers adjacent to Calabogie and High [illegible] as been secured by Iroquois, Ont., c[illegible] ts and will be developed and supplie[illegible] this city. M. Beach, Iroquois, Ont. is int[illegible]

REGINA, SASK.—Plans have [illegible] prepared for additions and extensions to [illegible] unicipal power plant to cost, $115,000.

WINNIPEG, MAN.—The cont[illegible] for the steel work for the power substat[illegible] has been awarded by the city to the MAN[illegible] A IRON WORKS CO., Winnipeg, Man., [illegible] $12,415. The tender of the Vulcan Iron [illegible] Co., Winnipeg, was $12,410, but thi[illegible] asked to be allowed to withdraw its te[illegible] on account of pressure of work.

WINNIPEG, MAN.—Pratt & R[illegible] Archs., have prepared plans for a tu[illegible] power house for the Winnipeg Electric [illegible] to be erected here at a cost of $72,000. [illegible] will be the first unit of additions to [illegible] company's plant this year which wi[illegible] ap-proximately $500,000. Wilford [illegible] ps is Gen. Supt.

BRIDGES.

*(*Denotes that this work is adv[illegible]d in Engineering News.)*

BANGOR, ME.—Penobscot Count[illegible] considering the reconstruction of the [illegible] ngor-Brewer Bridge. H. Dunn, Brewer [illegible], is interested.

PITTSFIELD, MASS.—The city i[illegible] onsidering the construction of a bridge a[illegible] the Housatonic River at Elm St. Estim[illegible] cost, $14,000.

BOSTON, MASS.—The Boston & Maine R. R. Co. on Jan. 10 decided to appropriate $190,000 for strengthening the bridges between Wells River and Newport, Vt., and $80,000 for the construction of a steel bridge at Bath, N. H. J. P. Snow is Ch. Engr., Boston.

WALTHAM, MASS.—The city is considering the construction of a bridge to Weston across the Charles River. Bertram Brewer is City Engr.

NEW YORK, N. Y.—Charles B. Stover, Pres. Park Bd., Dept. of Parks, has asked for an appropriation of $50,000 for the repair and completion of the Terrace Bridge at the north entrance to the Mall in Central Park. Of this apprpriation, $30,000 is requested for restoration and $20,000 for completion.

NEW YORK, N. Y.—Bids were opened on Jan. 10 by Kingsley L. Martin, Comr. of Bridges, for constructing elevators, stairs, drainage, ornamental and electrical work for the anchor piers of the Queensboro Bridge over the East River, between Manhattan and Queens Boroughs, as follows: Z. Wichsler, 1135 Broadway, New York, $70,000; Charles Wille, $69,724; Snare & Triest Co., 143 Liberty St., $67,890; Charles Meads Co., 299 Broadway, New York, $57,300.

HARRISON, N. J.—The Hudson County Board of Chosen Freeholders, Jersey City, on Jan. 5 adopted a resolution authorizing the County Engineer to prepare plans for a new Bridge St. bridge across the Passaic River here.

*SALEM, N. J.—Bids will be received by the Bridge Committee of the Board of Chosen Freeholders, until 10.30 a. m., Feb. 8, at the Court House, Salem, for the construction of a concrete floor bridge in the Borough of Woodstown, at the end of the State Road. Specifications may be obtained of Levi S. Prickitt, Woodstown.

PHILADELPHIA, PA.—Plans for widening the Chestnut St. Bridge, over the Schuylkill River, have been completed by the Survey and Highway Bureaus and bids will be asked soon. There was an item for $90,000 for the work in the $5,000,000 loan and the money is now available. The present width of the bridge is 26 ft. and the sidewalks 8 ft. When completed the width of the roadway will be 36 ft. and the sidewalks will be 9 ft. each. This will allow sufficient room for two tracks for cars and enough space for driveways, and walks. The plans call for a 6-ft. extension on each side of the bridge. In connection with the widening of the bridge, Chestnut St., between 22d and 24th Sts., will be increased in width with a probable raise in grade of 4 ft. at the 24th St. end. Plans have been made for an elaborate scheme of electric lighting for the bridge. George R. Stearns is Dir. Pub. Wks.

YORK, PA.—The Grand Jury has approved the construction of two bridges in Peach Bottom Township.

READING, PA.—The Berks County Court has approved the recommendation for the construction of a new bridge across the Schuylkill River between Reading and West Reading.

WILKES-BARRE, PA.—Bids will be received by Fred H. Gates, City Clk., until noon, Jan. 23, for all labor and materials for constructing a reinforced concrete bridge in Stanton St.

BALTIMORE, MD.—We are officially advised that the M. A. Talbott Co., American Bldg., Baltimore, is in the market to place contract for more than 1,500 tons of steel bridges, railroad and highway.

HAGERSTOWN, MD.—Plans and specifications for the construction of the bridge over Conococheague Creek will probably be ready next month. The bridge will be built for the Hagerstown & Clearspring Ry. Co. Noted in Jan. 5.

RICHMOND, VA.—See item under E[illegible]tric Railways.

CAPE CHARLES, VA.—The New Y[illegible]k, Philadelphia & Norfolk R. R. Co., Elisha [illegible], Supt., will construct a concrete bridge w[illegible] graded approaches across the railroad tra[illegible]s here. Estimated cost, about $10,000.

LAWREN[illegible]VILLE, VA.—Bids will be received unt[illegible] noon, Jan. 23, at Lawrenceville, by P. St. [illegible] Wilson, State Highway Comr., Richmond, [illegible], for the construction of a bridge o[illegible] the Meherrin River in Brunswick County, [illegible] Grandy.

GATE [illegible]Y, VA.—Bids will be received until [illegible] Jan. 30, at Gate City, by P. St. J. W[illegible] State Highway Comr., Richmond, Va., [illegible] construction of a bridge over the North [illegible] of Holston River, Scott County, near [illegible].

DAN[illegible]LE, VA.—The City Council is considering [illegible] recommendation of the Finance Comm[illegible] to appropriate $15,000 for the const[illegible] of a bridge at Union St.

WE[illegible]URG, W. VA.—The Wellsburg Brid[illegible], Wheeling, W. Va., is preparing plans [illegible] the construction of a bridge between [illegible]illiant, Ohio, and Wellsburg. Noted on [illegible] 15.

D[illegible]AM, N. C.—The Durham County Com[illegible]oners have awarded the contract to the [illegible]ER CONSTRUCTION CO., Burlington, [illegible] C., for the construction of a bridge acr[illegible] Eno River, of reinforced concrete, 70-ft. [illegible] approach to be arch shape, at $10,500[illegible] oted on Dec. 22.

C[illegible]LE HAYES, N. C.—The counties of Pe[illegible] and New Hanover are planning for the [illegible]truction of a steel bridge across the No[illegible]t River here. Estimated cost, $30,000[illegible] J. Armstrong is Chn. Joint Com., Bu[illegible], N. C.

J[illegible]SONVILLE, FLA.—The Board of Pu[illegible] Works will ask for bids for the constr[illegible]n of a reinforced-concrete bridge ac[illegible] Hogan's Creek at East Bay St. Philip Pr[illegible]u is City Engr.

M[illegible]IDIAN, MISS.—The city has adopted res[illegible]tions looking toward the construction of [illegible] viaduct by the railroads over their trac[illegible].

N[illegible]HVILLE, TENN.—See item under Elec[illegible]c Railways.

AK[illegible]ON, OHIO.—Bids will be received until 1[illegible] a. m., Jan. 30, by the County Commissione[illegible], Akron, for the construction of a creo[illegible]te floor on the West Thornton St. bridge over the canal here. Charles L. Wirt[illegible] is Clk.

CINCINNATI, OHIO.—See item under Miscellaneous Contracts—Grade Crossing.

ST. MARYS, OHIO.—The bridge of the Western Ohio R. R. on the Lima Stone Co. spur will be replaced with a new steel bridge. F. B. Mason, St. Marys, is Ch. Engr.

ZANESVILLE, OHIO.—Bids will be received until noon, Feb. 6, by the Commissioners of Muskingum County for constructing the substructure of the Fifth St. bridge. H. A. Buerhaus is County Audr.

LOCKLAND, OHIO.—We are officially advised that the contract has been awarded by the County Commissioners to GERALD W. KNIGHT, 3037 Woodburn Ave., Cincinnati, Ohio, for the construction of a concrete bridge in Cooper Ave., Lockland, Springfield Township, at $13,971.

INDIANAPOLIS, IND.—Bids will be asked for the construction of three concrete bridges over Pogues Run and one steel bridge across the canal at Holton Pl. C. A. Shrader, is Pres. Bd. Pub. Wks.

VINCENNES, IND. — The VINCENNES BRIDGE CO., has been awarded contracts for the construction of 29 bridges in Oklahoma.

KALAMAZOO, MICH.—Bids will be received until Jan. 30 by the City Clerk for constructing a reinforced-concrete bridge 190 ft. span, having three arches 50 ft. in the springing line. H. A. Johnston is City Engr.

EAST TARVAS, MICH.—The Detroit & Mackinac Ry. Co. is planning to construct a bridge over Swan River on the Rogers City branch. H. S. Waterman, East Tarvas, is Ch. Engr.

*EAST ST. LOUIS, ILL.—Bids were received on Jan. 9, as follows, by the Board of Trustees East Side Levee and Sanitary District, Sexton Bldg., we are officially advised, for the construction of four steel highway bridges over the channel now being dug to divert the waters of Cahokia Creek into the Mississippi River. Each of the bridges will be 270 ft. long. The main span of each will be 150 ft. long, and there will be two other spans of 60 ft., making three spans to each bridge: (a) highway bridges, complete; (b) additional plain masonry per cu. yd.; (c) allowance for reduction in masonry per cu. yd.; (d) additional piling per lin. ft.: Milwaukee Bridge Co., (a) $58,-549, (b) $10, (c) $10, (d) 80 cts.; Toledo Bridge and Crane Co., (a) $57,557, (b) $10.51, (c) $8, (d) 40 cts.; Winamac Bridge Works, Winamac, Ind., (a) $52,993, (b) $10, (c) $5, (d) 70 cts.; Midland Bridge Co., (a) $62,000, (b) $10, (c) $10, (d) 60 cts.; Missouri Bridge and Iron Co., (a) $53,685, (b) $10, (c) $7.50, (d) 60 cts.; Central States Bridge Co., (a) $56,000, (b) $19, (c) $8, (d) 60 cts.; S. R. H. Robinson & Son Contracting Co., (a) $60,990, (b) $10.50, (c) $7, (d) 45 cts.; Stupp Bros. Bridge and Iron Co., (a) $63,900, (b) $8.50, (c) $7, (d) 65 cts.; McClintic-Marshall Construction Co., (a) $59,900, (b) $9, (c) $7, (d) 40 cts.; Murphy Construction Co., (a) $58,206, (b) $8.72, (c) $6.81, (d) 59 cts.; National Contracting Co., (a) $65,-817, (b) $6, (c) $6, (d) 40 cts.; Joliet Bridge and Iron Co., (a) $53,475, (b) $8.50, (c) $6.50, (d) 65 cts.; Massilon Bridge & Structure Co., (a) $62,000, (b) $[illegible].75, (c) $4.60, (d) 50 cts. It is reported that the contract has been awarded to the JOLIET BRIDGE & IRON CO.

[illegible]ILWAUKEE, WIS.—The city budget includes the sum of $125,000 for the construction of a bridge over the Milwaukee River at O[illegible]ida St. Plans are being prepared. L. T. [illegible]g is Supt. Bridge Construction. Noted on Dec. 22.

[illegible]ARINETTE, WIS. — The City Engineer is completing plans for the construction of new bridge over the Menominee River.

MARSHALLTOWN, IOWA.—Contracts for the construction of four bridges were awarded on Jan. 6 by the Board of Supervisors to the N. M. STARK CO., Des Moines, Iowa, and to the WHEELER LUMBER CO., Des Moines, at $1,500 and $6,268, respectively.

MINNEAPOLIS, MINN.—The Hennepin County Commissioners have awarded to the MINNEAPOLIS STEEL & MACHINERY CO., Minneapolis, the contract for the construction of a bridge over the "Narrows," Lake Minnetonka, at $38,500.

TOPEKA, KAN.—The city is considering the construction of various steel bridges to replace wooden bridges. Bonds for $40,000 will be voted upon in the spring.

LAWRENCE, KAN.—Bids for taking down, removing and erecting and furnishing a certain amount of new material for a bridge will be received at the office of W. R. Green, County Clk., Douglas County, until noon, Jan. 28.

KEARNEY, NEB.—We are officially advised that the contract was awarded on Jan. 12 by the County Board of Supervisors to W. T. GIBSON, Lamp City, Neb., for bridge work and furnishing lumber to Buffalo County during the year 1911.

YORK, NEB.—The contract, we are officially advised, has been awarded to the WESTERN BRIDGE & CONSTRUCTION CO., Omaha, Neb., for bridge work in York County during 1911. Bids were opened on Jan. 10.

YANKTON, S. DAK.—Bids will be received by John W. Summers, City Audr., until 7.30 p. m., Feb. 27, for furnishing all materials and labor connected with constructing and completing ready for travel a steel reinforced concrete bridge across Rhine Creek on Walnut St., Yankton.

WILLISTON, N. DAK.—It is proposed to construct a pontoon bridge across the Missouri River here, the city, Williams and McKenie Counties, the Great Northern Ry. Co., and the U. S. War Department being interested.

KANSAS CITY, MO.—The Wyandotte County Commissioners on Jan. 7 accepted the plans of J. M. Lindsey, County Surv., for the extension of the north approach to the Fifth St. bridge over the Kaw River. Estimated cost, $8,000.

LLANO, TEX.—Llano County has voted for the construction of one or more bridges across the Colorado River between Llano and Burnet Counties, and two bridges at other points.

CUERO, TEX.—The San Antonio & Aransas Pass Ry. Co., J. S. Peters, Gen. Mgr., San Antonio, Tex., has awarded the contract to the VIRGINIA STRUCTURAL CO., Roanoke, Va., for the construction of a 200-ft. span across Guadalupa River at about $25,-000. Noted on Jan. 5.

WEATHERFORD, TEX.—The Weatherford, Chicago & Brazos Valley R. R. Co., H. F. Mitchell, Gen. Mgr., Weatherford, will construct seven bridges, including five wooden trestles and two steel spans, 100 and 120 ft. girders, respectively.

DALLAS, TEX.—The Dallas County Commissioners have awarded the contract to the MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, Kan., at $41,780 for constructing the Wilmer, Hutchins and Malloy bridges across the Trinity River. The contract does not include approaches which will be built under the supervision of the Commissioners' Court. Bidders noted on Jan. 5.

WAGONER, OKLA.—The Wagoner County Commissioners have awarded the contract to the CANTON BRIDGE CO., Canton, Ohio, for constructing the bridge across Verdigris River at Mingo Ferry, at $14,000.

BARTLESVILLE, OKLA.—Bids will be received until Jan. 21 by the County Commissioners, Bartlesville, for constructing a bridge 50 ft. long with a 16-ft. roadway in Washington Township.

HASKELL, OKLA.—The County Commissioners on Jan. 3 awarded the contract to the MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, Kan., for the construction of a bridge over the Arkansas River near here, at $59,250. The contract was awarded on condition that the people of Haskell subscribe the $4,000 extra above the estimated cost in addition to $15,000 already pledged.

DENVER, COLO.—The City Engineer has made a favorable report on the proposition to construct a bridge over Cherry Creek to the Platte River.

The Board of Public Works and the Jefferson County Commissioners have agreed upon the construction of bridges over Dry Creek at 12th Ave., and between Sixth and Seventh Aves.

BURLEY, IDAHO.—Business men of the city and farmers of Lincoln and Cassia Counties are urging the construction of a bridge over the Snake River north of here.

SPOKANE, WASH.—It has been estimated that the trestle to be constructed for the county at the subway on Trent Road will cost $15,000. A. R. Scott, Spokane, is County Engr. Noted on Jan. 5.

PORTLAND, ORE.—The Harriman railroad interests have awarded to the AMERICAN BRIDGE CO., 30 Church St., New York, the contract for all the steel used on the superstructure of the new crossing being constructed to replace the Steel Bridge. There yet remains a contract for erecting the bridge, which will be disposed of early in the spring.

SUISUN, CAL.—The contract for constructing the bridge over Suisun Creek has been awarded by the country to C. H. GILDERSLEEVE, Napa, Cal., at $5,450. C. G. Halliday is County Clk.

LOS ANGELES, CAL.—Homer Hamlin, City Engr., presented plans on Jan. 4 to the Board of Public Works for the construction of the concrete ornamental work for the Buena Vista St. bridge. Estimated cost, $15,000.

MORRIS, MAN.—D. M. Ure, Secy.-Treas., will receive bids until noon, Jan. 20, for the construction of two pile bridges here.

BUILDINGS.

(*Denotes that this work is advertised in Engineering News.)

BATH, ME.—Bids were received as follows on Jan. 16, by the Supervising Architect of the Treasury, Washington, for the construction of an extension to the Bath, Me., post office. Ambrose B. Stannard, New York, $62,000; William H. Fissell & Co., New York, $62,371 Conners Bros. Co., Lowell, Mass., $70,000; Hacker & Carlton, Bath, Me., $82,366; Woodbury & Leighton, Boston, Mass., $70,000.

BARRE, VT.—Bids will be received until Feb. 14, for the construction, complete (including plumbing, gas-piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Barre, Vt. James Knox Taylor, is Superv. Arch., Wash., D. C.

MONTPELIER, VT.—A new state building will probably be erected here by the Committee of Public Bldgs. The estimated cost is about $250,000.

CAMBRIDGE, MASS.—William F. Brooks, Mayor of Cambridge, has sent a petition to the city government signed by all the leading business men of the city, for the erection of a municipal hospital for the poor sick. It is proposed to erect the institution in the heart of the city, in the vicinity of Central Sq.

BOSTON, MASS.—The Legislature has been petitioned for the establishment by the state of an agricultural college in the vicinity of Boston.

BOSTON, MASS.—Bids will be received until Jan. 25 by Charles Logue, Chn. School House Comn., 120 Boylston St., for constructing elementary school building in Phillips Brooks District.

BOSTON, MASS.—A bill has been introduced into the state legislature to authorize the city to demolish the old court-house, now used for city offices, and to erect a twelve-story modern building on the site; the building is 55 × 230 ft. This would provide for most of the rooms now hired outside of city hall. An arch would be made over Court Sq. connecting with City Hall.

BOSTON, MASS.—A $3,000,000 hotel is planned for the old Art Museum site in Copley Square. The Art Museum is about to be torn down and the improvements are so planned as to permit the construction of a new boulevard from Copley Sq. to Park Sq. Chas. H. Blackall is Arch. of the hotel.

WATERBURY, CONN.—By the will of the late Elisha Leavenworth, $40,000 has been left to the Mattatuck Historical Society for the erection of a building in this city. Henry L. Rowland, Waterbury, is Secy. of the society.

SYRACUSE, N. Y.—Contracts will be let before Feb. 1, for building the 5-story, $40,-000 hospital on Irving Ave. It is to be done Aug. 1, next.

BROOKLYN, N. Y.—Plans are being made by the members of Visitation Lyceum to erect a clubhouse and gymnasium to replace the one destroyed by fire about two years ago. The building will be two stories high, located on Verona St. The estimated cost of the building is $50,000.

BROOKLYN, N. Y.—The Edison Electric Illuminating Co., 360 Pearl St., Brooklyn, for a 2-story fireproof stable and warehouse, 91 × 32 ft., to be located in the Parkville yards. Hollow tile and stucco construction will be used.

BROOKLYN, N. Y.—R. T. Schaeffer, 1524 Flatbush Ave., is preparing plans for a 1-story stone and brick edifice to be erected at Rogers and Newkirk Aves. by St. Stephen's German Lutheran congregation. Rev. Luther Gable, 415 East 26th St., is rector.

NEW YORK, N. Y.—The contract has been awarded to A. J. ROBINSON, 123 East 23d St., for improvements to the 13-story apartment building, at 615 Fifth Ave., for the George Kemp Real Estate Co.

The Rountree Realty Construction Co. has purchased from Jacob Hirsh the block front on the westerly side of Pinehurst Ave., between 179th and 180th Sts., on which will be constructed four apartment buildings, 200 × 112 ft. Plans have been prepared by Albert Martin. The proposed building will cost about $300,000. The entire project involves about $425,000.

NEW YORK, N. Y.—The Quondam Land Holding Co. will erect at the southwest corner of 31st St. a 12-story structure. The building will occupy a plot fronting 63,2 ft. on the avenue and 115 ft. on the street. The estimated cost is about $400,000. Herts & Tallant are the Archs.

Plans for converting the two 5-story buildings at the southeast corner of Fifth Ave. and 36th St. into one store and loft building. The building will be extended in the rear 30 ft. and an entire new front. The estimated cost is $50,000. Mrs. George Bliss is owner.

A hospital will be erected between 54th and 55th Sts., from Eleventh to Twelfth Aves., on the Hudson. The block on which the hospital is to be built runs 200.10 ft. on Eleventh and Twelfth Aves. and 800 ft. on 54th and 55th Sts.

The New York Zoological Society, Battery Pl., is contemplating constructing a new Battery Aquarium, as the present one is too small to accommodate all the specimens of fish. Henry F. Smith is Pres. of the society.

An 8-story reinforced-concrete garage, 71 × 164.3 ft., will be erected on the east side of Broad St., between Pearl and Wood st. The estimated cost is about $326,000. The Packard Motorcar Co. is the owner.

NEW YORK, N. Y.—Construction work will soon be started by the Princeton Construction Co., 220 Broadway, on the proposed 10-story apartment house on the west side of Madison Ave., from 82d to 83d Sts. Schwartz & Gross, 347 Fifth Ave., have prepared the plans. The estimated cost is about $700,000.

Plans are being prepared by Frederick Putnam Platt, 80 Wall St., for remodeling the 5-story loft building, 121 Maiden Lane, into a 7-story office building.

The Consolidated Gas Co. is having figures taken on the structural steel necessary for a loft building at 17th and Irving Pl. Henry J. Hardenbergh is the architect.

William P. Morgan, Newport, R. I., is having M. C. Merritt, 1170 Broadway, prepare plans for a 6-story brick and stone tenement building at 202-204 West 107th st. The estimated cost is $60,000.

NEW YORK, N. Y.—A new building will be erected by the Washington Irving High School. The estimated cost is about $600,000.

A 11-story loft structure will be erected at 133 and 135 West 44th St., a plot recently purchased by Whitney Lyon. The two 4-story buildings now on the plot will be razed to make room for the new improvement.

The Flau Construction Co. will erect at Tremont Ave., 50 ft. west of Walton Ave., a 5-story brick tenement, 50 × 70.6 ft. John Hauser, 360 West 125th St., is the Arch. The estimated cost is $40,000.

Two 5-story brick tenements will be erected at 171st St., 100 ft. east of Third Ave., 27.6x102.10 ft., by Charles B. Jorkegren, 2148 Mapes Ave. Franz Wolfgang, 535 East 177th St., is the Arch. The estimated cost is $60,000.

M. Briganti, 218 Lafayette St., will erect at Delancey St., southwest corner of Mulberry St., a 6-story brick and stone store and tenement building, 35 × 89.5 ft. Bernstein & Bernstein, 24 East 23d St., are the Archs. The estimated cost is $60,000.

Plans are being prepared by George & Edward Blum, 505 Fifth Ave., for the construction of four 12-story apartment buildings at West 72d St., between Columbus Ave. and Broadway. The buildings will be owned by Brown Bros., 33 East 20th St. The buildings will have all modern improvements.

TROY, N. Y.—George B. Cluett will erect the proposed Troy Boys Club building on south side of State St., between Fifth and Sixth Aves. The building will be built of Indiana limestone and tapestry brick, the first story facing on State St. and Union Alley will be entirely of limestone and the windows on State St. above the first story will be trimmed with the same stone.

MADISON BARRACKS (Sacketts Harbor post-office), N. Y.—The list of bids for forage store house opened at Madison Barracks, N. Y., January 9, 1911, are as follows: C. D. Hodge & Co., Watertown, N. Y., $2,973; Amity Construction Co., New York City, $5,300; John J. Fitzpatrick & Son, Plattsburg, N. Y., $3,097.77; A. J. Servis & Son, Youngstown, N. Y., $3,889; Charlebois Bros., Watertown, N. Y., $3,350.

FLUSHING (L. I.), N. Y.—An addition will be built on the Flushing Hospital on ground adjoining the hospital property by the Board of Trustees. The estimated cost is $50,000.

YONKERS, N. Y.—H. W. Bertholf, George W. Olivit and John T. McKenna, Com. on Architecture of the Bd. of Education, received 6 bids for the erection of the Saunders Trade School, at South Broadway, as follows: Lynch & Larkin, $54,900; George T. Kelly, $56,600; Oscawana Building Co., New York, $57,000; R. L. Stewart, $59,275; Peene & Garthwaite, $59,675; P. J. Flannery, $64,-449. The contract was awarded to LYNCH & LARKIN, subject to confirmation by the Board.

ROCHESTER, N. Y.—The Odd Fellows Fraternal Association, 11 Clinton Ave., North, contemplates the erection of a temple building of stone and brick cor Spring and South Fitzhugh Sts., to cost about $200,000.

COLLINGSWOOD, N. J.—George E. Savage, Arch., is designing a church and Sunday school building at Collingswood for the First Baptist Church. The estimated cost is $42,000.

NEWARK, N. J.—Edward Dunn, 7 South 9th St., Newark, has been commissioned to prepare plans for the construction of a store and office building, 67 × 96 ft., for the Fairchild-Baldwin Co., Firemen's Insurance Bldg., Newark, to be erected at the corner of Halsey and Warren Sts. Bids will probably be asked about Jan. 16.

NEWARK, N. J.—Bamberger & Co. will erect in Newark a new department store, to occupy the block at Market, Halsey and Washington Sts. The building will front 235 ft. on Halsey St., 144 ft. on Market St. and 116 ft. on Washington St., taking in the property now covered by the Empire Theater. It will be of fireproof construction, steel skeleton frame, with facade of light brick and ornamental terra cotta. There will be eighteen electric passenger elevators. The estimated cost is about $2,000,000.

TRENTON, N. J.—Plans are being made by Henry J. Blauvelt, Philadelphia, for the construction of a rear addition to the American Mechanics' Building, which is now nearing completion. The estimated cost is $80,000.

PHILADELPHIA, PA.—An 8-story restaurant is to be built on the site of the Wetherill property at the southeast corner of Broad and Walnut Sts. for the Ritz-Carlton Hotel Co. Plans are being prepared by Horace Trumbauer, Philadelphia, and Warren Wetmore, New York. The estimated cost is about $600,000.

A 9-story apartment house will be erected at the southeast corner of Charles and Read Sts. The present buildings occupying the site will be razed to make room. Plans are being prepared by Glidden & Friz, Archs. Gen. Clinton L. Riggs is the owner.

ERIE, PA.—An office building will be erected at the corner of Sixth and French St. The building will be two stories high, 55 × 100 ft., and will cost about $50,000. Donaldson-Neier, Detroit, Mich., are the Archs.

FRANKLIN, PA.—The contract for the construction of a fine new building for the Lamberton National Bank, Franklin, was awarded to JOHN OSBORN, Franklin.

LANCASTER, PA.—The Guarantee Trust Co. is having preliminary plans prepared by Hoggson Bros., No. 7 East 44th St., New York City, for a banking and office building, to be built in the spring at 32-36 North Duke St., at a cost of approximately $50,-000, exclusive of furnishings. The building

will be three or four stories in height, of brick, steel and stone, and fireproof. It will contain private power plant, steam heating system, modern plumbing system and two elevators, vacuum cleaning system, etc. A. B. Keiper of the Champion Blower Co., Lancaster, is chairman of the building committee.

PHILADELPHIA, PA.—The Peoples Bros. has started the work of demolition of the old factory building at 2314 to 2324 Market St., preparatory to the erection of a garage for the Douredorure Estate. The estimated cost is $100,000.

NORRISTOWN, PA.—A. B. Pierson is contemplating a 1-story stone church, 48 × 63 ft., to be built for the Reformed Church of the Ascension. The estimated cost is about $40,000.

CAMDEN, PA.—A nine-story apartment house will be erected by the Greater Camden Realty Co. at the northeast corner of Second and Penn Sts., Camden, on the Frazee property, recently purchased.

BALTIMORE, MD.—The Consolidated Gas, Electric Light and Power Co. is planning to construct a garage for electric commercial vehicles. It will be situated in the center of manufacturing district, and will contain facilities for charging of the machines and their storage.

CUMBERLAND, MD.—Plans have been prepared by Holmboe & Laferty, Clarksburg, W. Va. It will be four stories high, of terra cotta, stone and ornamental iron. The proposed building will have a frontage of 70 ft. by a depth of 85 ft., and will cost about $80,000.

CUMBERLAND, MD.—Scottish Rite Masons awarded contract to OLIN GERLACH, Frostburg, Md., for construction of lodge building; two stories; brick and stone; steam heat; gas and electric lights. Plans prepared by Wright Butler, Cumberland.

The City rejected all bids for erection of city hall; two stories and basement; 70 × 85 ft.; stone; cost not to exceed $75,000. Plans by Holmboe and Lafferty, Clarksburg, W. Va. C. W. Domling, Marietta, Ohio, low bidder at $107,747.

CROWNVILLE, MD.—Plans are being prepared for the proposed hospital for the Colored Insane, to be erected at Crownville, Md. Modern dormitories, reading rooms and hospital facilities will be installed. Drs. Hugh H. Young and Arthur Herring are in charge of the movement. The estimated cost is about $100,000.

BALTIMORE, MD.—Franklin P. Cator, 13-15 West Baltimore St., awarded contract to JOHN COWAN, 106 W. Madison St., Baltimore, for the erection of a warehouse at 4 West German St.; fireproof construction; six stories and basement; 39 × 90 ft. Plans by Wyatt & Nolting, Keyser Building, Baltimore, Md. The estimated cost about, $60,000.

Swift & Co., 300 and 414 So. Eutaw St., will erect a warehouse at Eutaw and Camden St.; six stories; brick and stone; fireproof; frame work of structural iron, with steel girders; electric elevators. The cost is about $50,000; contractor's estimating include Charles L. Stockhausen, Marine Bank Building; B. F. Bennett Building Co., 123 S. Howard St. and J. Henry Miller, 106 Dover St., all of Baltimore.

Baltimore Bargain House, Jacob Epstein, Prop., 204-220 West Baltimore St., is receiving new estimates for constructing a store bldg. at Baltimore and Liberty Sts.; twelve stories. The cost is about $1,000,000. Plans by Joseph Evans Sperry, Calvert Building, Baltimore, Md.

BALTIMORE, MD.—Geo. R. Morris, Gunther Building will erect an apartment house at Madison Ave. and Wilson St.; eight stories; fireproof construction, 50 × 130 ft. The cost is about $75,000. Plans by owner.

WASHINGTON, D. C.—Bids were received as follows on Jan. 14, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of the new Bureau of Engraving and Printing Building, Washington, D. C. The work includes the construction of the building itself and not the interior fittings: J. Henry Miller, Inc., Baltimore, Md., $1,922,900; W. A. Chesterman, Richmond, Va., $1,825,000; Oscawana Building Co., New York, $1,957,000; G. A. Feller Co., Washington, $1,843,000; W. H. Maxwell, Great Falls, Mont., $1,984,000; John G. Doak & Co., Philadelphia, $1,889,000; Charles McCaul Co., Philadelphia, $1,962,000; Henry Smith & Sons Co., Baltimore, $1,770,000; Thomas H. Melton, Washington, $2,100,449; John T. Brady & Co., New York, $2,080,840; Woodbury & Leighton, Boston, Mass., $1,703,457; John H. Nolan, Washington, $2,226,237; James Stewart & Co., New York, $1,959,000; Charles H. Peckworth, New York, $1,919,000; Noel Construction Co., Baltimore, $1,867,000; Sound Construction & Engineering Co., Seattle, Wash., $2,046,886; Conners Bros. Co., Lowell, Mass., $1,937,000; Cramp & Co., Philadelphia, $1,909,787; Norcross Bros. Co., Worcester, Mass., $1,939,450.

WASHINGTON, D. C.—Plans are being prepared for the erection of a new Gospel Mission Home, to be erected on Pennsylvania Ave. The estimated cost is about $150,000.

WASHINGTON, D. C.—Plans have been accepted for buildings for State Departments in Washington. Arnold W. Brunner was awarded the plan for the State Department building, Donn Barber's scheme for the Justice building was accepted, and YORK & SAWYER got the contract for the building of the Department of Commerce and Labor. All of the architects are in New York. The estimated cost of the three buildings is about $8,000,000.

NORFOLK, VA.—The Ghent Presbyterian Church will erect on Colonial and Ridgate Aves. a church edifice to cost $50,000. Baker & Brinkley are the contractors.

NORFOLK, VA.—Plans are being prepared for the erection of a 6-story building 178 ft. frontage and a depth of 80 ft. The building will be erected on a site overlooking the harbor. Henry G. Barbee of the Board of Trade is interested.

ROANOKE, VA.—The Park Land Co. will erect a Lutheran Female College on the Logan property recently purchased. Large modern buildings will be erected at an estimated cost of $100,000.

BIG STONE GAP, VA.—Bids will be received until Feb. 20, for the construction, complete (including plumbing, gas-piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office and Court House at Big Stone Gap, Va. James Knox Taylor is Superv. Arch., Wash., D. C.

LEXINGTON, N. C.—Bids will be received until Feb. 15, for the construction, complete (including plumbing, gas piping, heating apparatus and electric conduits and wiring), of the U. S. Post Office at Lexington, N. C. James Knox Taylor is Superv. Arch., Wash.

CHARLOTTE, N. C.—Plans are being prepared by Eugene J. Sterns for the erection of a new hotel which will be built on McBee Ave.

ATLANTA, GA.—Plans have been approved by the Board of County Commissioners for the construction of a court house. It is proposed that the new building be six or eight stories high, to occupy the greater portion of the ground on which the present court house stands. The proposed building will cost about $300,000.

GRIFFIN, GA.—Bids will be received until noon, Feb. 7, for all material and labor necessary for the erection of a County Courthouse. Plans and specifications are on file at the office of A. Ten Eyck Brown, 607-610 Forsyth Bldg., Atlanta, Ga. H. V. Kell is Chmn., Commissioner of Roads and Revenues.

GAINESVILLE, GA.—A large office building will be erected in Gainesville. It is proposed to erect it on the lot of John W. Simmons, on East Washington St. It will be a modern 8-story structure.

MEMPHIS, TENN.—A country club house will be erected here by the Memphis Country Club. Plans will be prepared by Shaw & Pfeil, Archs. The building will cost about $50,000.

BOWLING GREEN, KY.—Plans have been prepared by James Knox Taylor, Superv. Arch., for the erection of a post-office. The building will be of granite and limestone, two stories high, 80 × 95 ft. The Plowman Construction Co. will probably do the construction work. The estimated cost is $120,000.

GENEVA, OHIO.—A new Casino will be erected on the shores of Lake Geneva by the proprietors of the present Casino at Evianles-Bains. The estimated cost is about $160,000.

CRESTVIEW, OHIO.—Reibel & Sons, Archs., Columbus, has been selected to prepare plans and specifications for a school building to be erected at this place. The estimated cost is $90,000.

COLUMBUS, OHIO.—J. S. Goldsmith is preparing plans for excavating, stone masonry and cut-stone work, for the new bank building at West Gay St. The Buckeye State Building & Loan Co. are the owners.

DAYTON, OHIO.—A post office will be erected at the corner of Third and Wilkinson Sts., which property the government had recently purchased at $310,000. This includes the properties of David Gebhart at the corner of the Women's Christian Association, and of Frank J. McCormick, extending from Wilkinson on Third to the Algonquin Hotel.

PORTSMOUTH, OHIO.—Preliminary plans are being prepared by Devoss & Wilson for the new addition and improvements to be made by the German Evangelical Congregation.

ST. PAUL, OHIO.—An office building of ten stories will be erected early in the spring on the site of the Clarendon Hotel, Wabasha and Sixth Sts., by E. L. Mich, Indianapolis.

SANDUSKY, OHIO.—The construction of a $200,000 hotel building for the site of the Mahala building, destroyed by fire, is contemplated.

NILES, OHIO.—Plans are in the course of preparation for two new school houses to be erected at Niles. The building will be fireproof and the cost is estimated at $50,000. Pittsburg contractors will be asked to submit bids.

LAFAYETTE, IND.—The Lafayette Loan & Trust Co., William Wallace, Pres., and Walter J. Ball, Secy., is considering plans for the construction of a new office and business building here.

WISHAWAKA, IND.—The Trustees of the West Joseph St. Baptist Church are considering plans for the erection of a new church. The site of the old church will be sold and a new site selected.

SOUTH BEND, IND.—Joseph D. Oliver has sold to the city a site worth $150,000 for $60,000 adjoining land now in use for school purposes. A new high school building will be erected on the new site.

BRAZIL, IND.—The Post Master at Brazil has been notified from Washington, that the plans for a new Federal building will be completed and bids asked some time in February.

EVANSVILLE, IND.—Leven Bros. are preparing to ask for bids for the construction of a large wholesale house on North Ninth St.

ELKHART, IND.—S. B. Cole, Battlecreek, Mich., has been awarded the contract to build a new high school building, at $94,260.

FT. WAYNE, IND.—G. E. Bursley & Co., has ordered plans for the erection of a large wholesale grocery building on the corner of Clinton and Superior Sts. Bids will be invited as soon as plans can be completed.

INDIANAPOLIS, IND.—The City Health Department and Board of Public Works are planning a modern and commodious city hospital building. Legislative aid will be invoked. The present building will be razed.

INDIANAPOLIS, IND.—A bill has been introduced in the legislature on the recommendation of Governor Marshall providing for the erection of armory buildings, in all county seats maintaining a branch of the National guard. Under the law Marion County (Indianapolis), would be enabled to construct an armory to cost $450,000. Adjutant General George W. McCoy, State House, has the matter in charge.

INDIANAPOLIS, IND.—Plans have been completed for a five-story modern business and office building to be erected by the Millers' Mutual Fire Insurance Co., in North Meridian St. Bids will be solicited soon. Rubush & Hunter are the Archs.

George J. Marott, capitalist, has ordered plans for an elegant and expensive dwelling north of Fall Creek.

The Southern Lumber Co., of this city, has purchased a tract of land on North Senate Ave., on which to erect 44 bungalows. The estimated cost is $100,000.

NEWBERRY, IND.—Plans are being made on which to ask for bids for the construction of a new Christian Church.

LAFAYETTE, IND.—Chas. Murdock, Pres. of the Merchants National Bank, will soon ask for bids for the erection of a modern and costly building in this city.

WABASH, IND.—The Advisory Board of Mobile Township, Wabash County, J. C. Gurtner, Chmn., is considering a petition for the erection of a new school house on the Baer School site.

KALAMAZOO, MICH.—A new building will be built by the Y. M. C. A., Kalmazoo, Mich., W. E. Cotrell, Secy., to take the place of the one destroyed by fire on Jan. 4. The building was valued at $60,000.

ROYAL OAK, MICH.—The Birmingham Lodge F. O. O. M. No. 44, are contemplating building a new Masonic Temple. Architects have not been selected. Proposition will probably mature early in 1911.

MILAN, MICH.—H. W. Pipp, 105 Ashley St., Ann Arbor, Mich., is preparing plans for a new store and flat building, three stories and basement, 50 × 105 ft., to be located in Milan, Mich. Building will be heated with steam.

HIGHLAND, MICH.—The Board of Education of Highland Park, Mich., Walter S. Copley, Secy., 48 Richton Ave., have selected Wells D. Butterfield, 614 Stevens Building, Detroit, Mich., to prepare plans for the new 2-story and basement school, 60 × 136. Will be ready for figure about Jan. 25, and will let contracts about 1st of March. Cost, $45,000.

HANDCOCK, MICH.—The Board of Education, J. Baer, Pres., Handcock, Mich., contemplate building a new 3-story high school in the spring. Architects and engineers have not been selected. Approximate cost is $100,000.

GRAND RAPIDS, MICH.—The W. C. T. U., Mrs. Ruby Fox, Secy., Grand Rapids, Mich., are contemplating building a new home and hospital on E. Fulton St., architects have not been selected. The cost estimated is about $40,000.

Reed & Sterns, 649 Endicott Building, St. Paul, Minn., architects, and G. H. Webb, engineer, Michigan Central Depot, Detroit, Mich., are preparing plans for a new passenger station to be used in connection with the new tunnel under the Detroit river that has recently been put in operation by the Michigan Central R. R. Station to be located near Michigan Ave. on 17th St. To be of brick and steel construction and strictly fireproof in every way. Will be ready for figures about March 1, 1911. Cost, $3,000,000.

G. A. Mueller, 804 Breitmeyer Building, has been commissioned to prepare plans for a new 6 story and basement addition, 40 × 100, to the Fairfax Hotel, O'Neil & Stillwell, Props., Bagley and Clifford Sts. Addition to contain 100 rooms. Cost, $40,000.

CHICAGO, ILL.—Francis A. Hardy has purchased a tract of vacant property on Chestnut St., at northwest corner of Lafayette St., from Louis Guenzel. Plans are being prepared for the erection of a high-class apartment building, containing 18 apartments, with all modern improvements. The estimated cost of the building is $150,000.

A Y. M. C. A. building will probably be erected here by the negroes of Chicago; $25,000 has already been subscribed by Julius Rosenwald, Pres. of Sears, Roebuck & Co., on the condition that an additional $75,000 be raised. B. H. Johnson is Gen. Secy. of the campaign.

DECATUR, ILL.—Plans are being prepared for the erection of a new high school that will cost about $40,000, the present building being inadequate for the number of scholars.

MURPHYSBORO, ILL.—Bids will be received until 3 p. m., Feb. 23, by the Superv. Arch., for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring of the U. S. Post Office, at Murphysboro, Ill. Drawings and specifications, copies of which may be obtained from the Custodian of site at Murphysboro, Ill., or at this office, at the discretion of James Knox Taylor, Superv. Arch.

APPLETON, WIS.—Plans are being made by the Wisconsin Telephone Co. to erect a new exchange building in this city. Negotiations are now being carried on for the purchase of a site.

MILWAUKEE, WIS.—Fred Landeck and associates have secured a 99-year lease on the property at the corner of Third and Wells Sts., to be used as a site for a new theatre and office building, to cost $500,000. Definite plans for the structure have not yet been completed.

Although plans have already been completed and accepted, no new central police or fire stations will be erected in the city this year, as the Socialist Council has made no provisions for bond issues for this purpose, notwithstanding the fact that it has been authorized to do so by the voters. Three small fire stations in different parts of the city will be erected, however.

Several counties, including Fond du Lac, Brown, Door, Pierce and Clark, are considering the erection of County Schools of Agriculture.

OTTUMWA, IOWA.—Construction work will start soon on the erection of a modern freight house. The estimated cost is about $50,000.

CHISHOLM, MINN.—The School Board has called for new bids for the construction of a school. The old bids have been thrown out, and the heating and wiring, etc., will be advertised for separately. The estimated cost is $115,000.

ST. PAUL, MINN.—Construction work will be started about March 1 on the construction of a dry goods house at Fifth and Wacouta Sts. The building will be eight stories high, 195 × 180 ft. Postle Mahler & Benson, 706 Germania Life Bldg., are the Archs. The estimated cost is $500,000.

KANSAS CITY, MO.—D. H. Burnham & Co., Chicago, will prepare plans and specifications for the proposed 15-story Waldheim building which will be erected at the corner of Eleventh and Main Sts. by Aaron Waldheim, Pres. of May, Stearn & Co. The estimated cost is about $500,000.

ST. LOUIS, MO.—A large warehouse will soon be erected on the river front here by the St. Louis Furniture Board of Trade.

ST. LOUIS, MO.—The Board of Education has purchased a plot of ground at Shaw and Tower Grove Aves. for $50,000, from the Board of Trustees of the Missouri Botanical Grounds. A school building, costing about $200,000, will be erected on the plot.

VICTORIA, TEX.—The Victoria Safe and Lock Co. is contemplating erecting a building 40 × 15 ft., in the northern suburbs of the city.

DALLAS, TEX.—The Northwestern Life Insurance Co. will begin construction on its proposed office building at the corner of Main and Akard Sts. as soon as Otto H. Lang, Arch., has completed plans. The building will have a frontage of 100 ft. on Union St. and 100 ft. on Akard St. The materials of the exterior are, beginning at the grade line, a granite base, above which the first three stories are of a semi-glazed terra cotta, embellished with relief ornamentation. The shaft of the building, from the fourth-story sill course to the fifteenth-story sill, will be finished with impervious brick or terra cotta. The fifteenth and sixteenth story finish will be of terra cotta, with richly ornamented pier terminals, which give relief to the otherwise plain surfaces.

EL PASO, TEX.—E. Krause, Arch., is drawing plans for a 2-story reinforced concrete warehouse, 50 × 75 ft., to be erected on Virginia St., for Gustave Momsen, composition roof, cement floors, freight elevator, plumbing, etc.

A 6-story reinforced concrete office building will be erected at the corner of the Plaza and Pioneer Pl., by the Central Building & Investment Co., H. B. Stevens, Secy. and Treas. The building will be 125 × 150 ft., and will cost $150,000. The contracts will be awarded April 1.

F. M. Andrews & Co., New York, and local capitalists will erect a hotel here to cost $700,000. It is planned to begin construction about April 1. The building will be 110 × 134 ft., and will contain 300 guest rooms. Plans have been prepared by an Eastern architectural company. The local men interested are W. L. Tooley, J. G. McNary, Felix Martinez.

MARLIN, TEX.—The contract has been awarded to Dr. J. W. TORBETT and T. A. CHEEVES for the erection of a 4-story building which will be used for a bath house and a portion of which will be an enlargement and improvement of the Majestic Hotel. The estimated cost, about $60,000.

TYLER, TEX.—A church, costing $50,000, will be erected by the congregation of the First Baptist Church.

PUEBLO, COLO.—A hospital will be erected in Pueblo by an organization formed for that purpose capitalized at $50,000. The following are the incorporators and trustees of the association: L. D. Roberts, Will J. Orange, Pueblo; Bert Hartman, of Denver. Trustees: James J. Davis, Pittsburg, Pa.; L. D. Roberts, Will J. Orange, Bert Hartman, and G. M. Jenkins, of Denver.

NORTH YAKIMA, WASH.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Feb. 18, for the construction, complete, except elevator, but including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the United States Post Office at North Yakima, Wash. Drawings and specifications may be obtained from the Custodian of site at North Yakima, Wash., or at this office at the discretion of the Superv. Arch.

NORTH YAKIMA, WASH.—The Yakima Hotel Co. will erect on the four lots adjoining the hotel on Third St. a new hostelry.

ASHLAND, ORE.—Drawings prepared by George A. Ferris, Reno, Nev., for a high school to be erected in Ashland, have been adopted by the Board of School Directors.

PORTLAND, ORE.—Plans have been filed by Kroner & Henn, Archs., for the erection of a building at Hawthorne Ave. and 2?th Sts. for Strong & Co., Concord Bldg. The estimated cost is about $100,000.

BAKERSFIELD, CAL.—The C. J. LINDGREN CO., San Francisco and Bakersfield, has been awarded the contract for the construction of a stone building to be erected for W. S. [illegible], near Stockdale. The cost is about [illegible]. Plans by a San Francisco architect. Two stories, reinforced-concrete construction, 100 x 100.

GREELEY, CAL.—Plans have been prepared and construction work will soon commence on a new jail to be erected here. The building will be three stories high, of brick and concrete construction. The estimated cost is about $40,000.

MONROVIA, CAL.—The following bids were opened Jan. 7, by the Board of School Trustees for the erection of a high school and manual training school here, plans by Allison and Allison, Exchange Building, Los Angeles. Bids were received as follows: (1) General Contract as per plans & specifications, (2) for Spanish clay tile roof instead of metal tile, (3) for maple floors instead of Oregon pine, (4) for apparatus tables for chemical and physical laboratories, (5) for wood lockers for the building, (6) for artificial slate blackboards instead of genuine slate. The following bids on the general contract according to the above schedule were received, G. W. Bell, 602 [illegible] St., Los Angeles (1), $51,540; (2) [illegible] (3) $1,260; (4) $440; (5) $900; (6) deduct $177. Dawson & Daniels, Pasadena (1) $51,993; (2) $450; (3) $1,250; (4) $400; (5) $1,350; (6) deduct $100. W. M. C. Crowell, Pasadena, (1) $53,970; (2) $1,750; (3) $750; (4) $325; (5) $1,700; (6) deduct $100. F. S. Willis (1) $55,745; (2) $600; (3) $1,050; (4) $250; (5) $1,100; (6) deduct $150. Los Angeles Planing Mill Co., Los Angeles, (1) $56,069; (2) $600; (3) $1,200; (4) $900; (5) $500; (6) deduct $150. G. C. Congdon, (1) $56,200; (2) $1,900; (3) $3,400; (4) $550; (5) $3,350; (6) deduct $300. W. M. Van Loenen & W. W. Webb, (1) $60,56[illegible]; (2) $2,199; (3) $1,761; (4) $500; (5) $1,323; (6) deduct $297. Alta Planing Mill Co., Los Angeles, (1) $61,985; (2) $1,438; (3) $1,338; (4) $462; (5) $1,631; (6) deduct $281. Crowell & Steward, Pasadena, (1) $64,436; (2) $2,200; (3) $1,450; (4) $400; (5) $1,500; (6) deduct same as pure slate. J. P. Daniels, (1) $67,317; (2) $2,598; (3) $1,392; (4) $520; (5) $2,439; (6) deduct $231. F. O. Engstron Co., Los Angeles, (1) $68,997; (2) $2,187; (3) $1,470; (4) $456; (5) $1,554; (6) deduct $281. Spanish Clay tile roofing will be used, maple floors and genuine slate black boards, lockers and lavatory equipment installed. Lowest bid submitted by G. W. Bell at $54,580. Contracts will be awarded at next meeting of the board. The following bids were received for plumbing, Cooney & Winterbottom, 1402 Alhambra Road, $4,320; for extra plumbing in lavatories, $245; Munger & Munger, Pasadena, $4,637, extra plumbing, $263. Chas. Strock, Los Angeles, $5,451 and $350; J. Hokom, $5,507 and $257 (Los Angeles); Monrovia Hardware Co., Monrovia, Cal., $5,557. The following bids were received for heating and ventilating, Munger & Munger, Pasadena, $3,970; Warner, Fass, Jones Co., Pasadena $4,060 and $2,930; Machinery & Electrical Co., Los Angeles, $4,123 and $3,673.

LOS ANGELES, CAL.—A modern steel office block of 10 or more stories in height is to be built during present year at south east corner of 2d and Hill Sts., by R. G. Gillis and J. J. Davis.

LOS ANGELES, CAL.—Application was made Jan. 5, by the Chester Fireproof Bldg. Co., for a permit to erect a 12-story office building at 5th and Spring Sts. The estimated cost is given at $1,000,000. The C. J. KUBACH CO., P. E. Building, have been awarded the contract at $26,400, for the excavating and foundations on the above building. Specifications call for Riverside, Colton or equal cement, reinforcing steel, Parkinson & Bergstone Archs., Security Building.

R. C. Gillis and J. J. Davis, Fay Building, have purchased a site, 120 x 115 ft., at Second and Hill Sts., for $250,000 and announce they will erect a 10 or more story office building on the site during the year.

LOS ANGELES, CAL.—Arch. Train & Williams, Exchange Bldg., are preparing plans for a 6-story, class A steel or concrete hotel building and emporium to be erected at Washington and Main Sts. for the So. Main St. Improvement Association. Estimated cost, $200,000 to $300,000.

LOS ANGELES, CAL.—W. J. Saunders, Arch., Wright & Callender Bldg., is preparing plans for the erection of a 2-story brick warehouse to be erected on San Fernando St. for the Port Costa Milling Co., of San Francisco, 100 x 137 ft., full open bay mill construction, first floor of cement, second floor of 3-in. pine with asbestos fireproof covering, sprinkler system, elevator (6,000 lbs.) box chutes, loading platforms, inclined doors, conduit electric wiring, composition roofing.

The Bungalet Designing Co., Grosse Bldg., has been commissioned to prepare plans for a 4-story fireproof apartment house to be erected for John L. Slater, at Long Beach, to contain 20 bath rooms, steam heat and automatic electric elevator.

LOS ANGELES, CAL.—Myron Hunt, Arch., Union Trust Bldg., is preparing working plans for five buildings of the group to be erected in Eagle Rock Valley for the Occidental College, John Willis Baer, Pres., Pasadena. The construction will be of reinformed concrete, fireproof throughout. Work will be started in the spring, buildings to be ready for occupancy in two years. Steam heat will be supplied from a central plant.

T. R. Griffith, Citizen's National Bank Bldg., Arch., is preparing plans for a 7-story reinforced concrete apartment house to be erected at Long Beach, 50 x 100 ft. Seventy bathrooms, steam heat, sanitary plumbing, vacuum cleaning, electric elevator, tile and terra cotta and pressed brick front.

OAKLAND, CAL.—A building will be erected by Irving Lewis and John M. Lewis, of the Grayson-Owens Co. It will be built on the southwest corner of Ninth and Franklin Sts., having a frontage of 100 ft. on Franklin St. and 75 ft. on Ninth St. It will be a 3-story basement and brick structure. The estimated cost is $50,000. Walter D. Reed is the Arch.

SAN DIEGO, CAL.—E. B. Shockley, has contract to erect a 4-story brick addition to the Fletcher-Salmons Co., building at 6th and D Sts., amount $35,000. Charles Engelretson has contract to erect a 3-story brick and steel hotel building, 50 x 100 on D St. Cost $30,000.

RIVERSIDE, CAL.—The Riverside Dairy Co., will erect a building on north east corner of Twelfth and Vine Sts.

WHITTIER, CAL.—Bids will be received up to Jan. 23 by the board of trustees of the Whittier Union High School District, for furnishing furniture, fixtures and machinery for the manual arts building and science hall.

CARLETON PLACE, ONT.—The Union Bank of Canada has purchased a site here for a handsome new block to be erected this year. Tenders are being asked. G. H. Balfour, Quebec, is Gen. Mgr.

MOUNT FOREST, ONT.—Bids are asked until Jan. 30, by the Public Works Dept. (R. C. Desrochers, Sec.), Ottawa, for the construction of a Public Building at Mount Forest. Plans at Office of Thomas Hastings, Clerk of Works, Postal Station "F," Toronto.

LINDSAY, ONT.—Bids will be received by the Public Works Dept. (R. C. Desrochers, Secy.), Ottawa, until Jan. 30, for interior fittings, post office, Lindsay, Ont. Plans from Thomas Hastings, Clerk Wks., Toronto, or Public Works Dept. Ottawa.

OTTAWA, ONT., CAN.—Bids will be received until Feb. 28, by R. C. Desrochers, Secy. Dept. Pub. Works, Ottawa, for all trades necessary for the erection of new departmental buildings on Mackenzie Ave.

TORONTO, ONT.—Bids will be received by the Public Works Dept. (R. C. Desrochers, Secy.), Ottawa, until Jan. 30, for interior fittings, postal station "B," Toronto. Plans from Thomas Hastings, Clerk Works, Toronto, or Public Works Dept. Ottawa.

TORONTO, ONT.—Bids will be received until Jan. 28, addressed to the Chairman, Building Committee, for the various trades required in the erection of a power house in connection with the Toronto General Hospital. Darling & Pearson, Archs., 2 Leader Lane, Toronto.

EDMONDS, B. C.—The British Columbia Electric R. R. Co. will erect a large station here this spring, it is reported.

VANCOUVER, B. C.—Smith, Davison & Wright will erect a warehouse building at Horner and Davie Sts. The estimated cost is $75,000.

The Merchants' Bank have purchased the southeast corner of Granville and Pender Sts., upon which will be erected a large office building. Geo. S. Harrison, Vancouver, is local Mgr.

BATTLEFORD, SASK.—Bids will be received until Jan. 30, by the Public Works Dept. (R. C. Desrochers, Secy.), Ottawa, for post office, customs and inland revenue fittings. Plans at office of W. R. Lattimer, Clerk of Works, Battleford, or Public Wks. Dept. Ottawa.

REGINA, SASK.—Plans for the new Bank of Ottawa building have been prepared, and it is expected construction will begin next spring. George Burn is the Gen. Mgr., Ottawa.

WINNIPEG, MAN.—Next spring work will be started on improvements and additions to the Canadian Pacific R. R. hotels at Victoria, B. C., Vancouver, B. C., Chateau Louise, B. C., Sicamous, B. C., Banff, Alta., Winnipeg, Man. In all, the work will cost over $1,000,000.

WINNIPEG, MAN.—The Allan Steamship Co. have purchased from Sir Harold Harmsworth a site at $3,000 per foot on Main St., upon which will be erected a 6-story office building this spring. Hugh A. Allan, Montreal, is Pres.

MEDICINE HAT, ALTA.—W. Poper Hill, Calgary, Alta., has purchased a site here on which he will erect a four story brick and stone block this spring.

MONTREAL, QUE.—The Shawinigan Water & Power Co. have purchased a large block of land in Maisonneuve, upon which it is expected a new terminal station will be erected.

WATER SUPPLY—IRRIGATION.

*(*Denotes that this work is advertised in Engineering News.)*

LINCOLN, ME.—The town is considering the construction of a water-works system.

TOPSHAM, ME.—The Topsham Water District has decided to extend the water system to Topsham Heights. Mains will be laid in Winter, Bridge, River, Front, Prospect and three unnamed streets. Estimated cost, $15,000. Address William R. Lincoln, Topsham.

BROCKTON, MASS.—The city will take immediate steps toward the construction of a new storage reservoir to be built this year. Estimates and plans are progressing.

LAWRENCE, MASS.—We are officially advised that contracts have been awarded by the Water Board on Jan. 16 as follows: For ten tons of pig lead, to EASTERN METAL & REFINING CO., at $4.65 per cwt.; lead pipe, to CHARLES MILLER & SON CO., Utica, N. Y., at $5.15.

TROY, N. Y.—The CHARLES MILLER & SON CO., Utica, N. Y., are reported to have been awarded the contract to furnish c.-i. water pipe at $21 a ton f. o. b., Troy, for water mains in Spring and Seventh Aves., about 105 tons. Noted on Jan. 12.

ANGOLA, N. Y.—The Village Board has awarded contract for the construction of a water-works plant to MAHONEY & SWANSON, Jamestown, N. Y. Pumping equipment and about 900 tons of c.-i. pipe will be required. Estimated cost, $55,000.

CLAYTON, N. Y.—The citizens have voted against an issue of $20,000 of bonds for a pumping station and new intake and $30,000 of bonds for a filtration plant.

FORT TERRY, N. Y.—We are officially advised that the contract has been awarded to M. L. BAYARD & CO., Philadelphia, for connecting tubular wells, building pumphouse and furnishing and installing a gasoline engine and pump here, at $6,000.

SCHENECTADY, N. Y.—The Commissioner of Public Works in his annual report recommended the construction of a large reservoir for the storage of the city water supply.

SPRING LAKE (Spring Lake Beach postoffice), N. J.—The Council is considering the construction of a new water plant. Estimated cost, $7,000. J. W. Sweigard is Engr. Water Plant.

NEWARK, N. J.—We are officially advised that the cities of Newark, Paterson and East Orange, the towns of Nutley and Bloomfield, and the Borough of Totowa, have joined in an application for a preliminary estimate concerning the proposed development of the Wanaque River and its shed. Morris R. Sherrerd, Newark, Consult. Engr., New Jersey State Water Supply Comn., is preparing an estimate of cost of the proposed new reservoir in the Wanaque River. Charles H. Folwell is Secy. Comn. Noted on Dec. 15.

CALDWELL, N. J.—The Mayor has recommended the improvement of the water supply and the establishment of a sewer system.

BRIDGETON, N. J.—We are officially advised that Clyde Potts, Consult. Engr., 30 Church St., New York, is preparing plans for a 5,000,000-gallon pumping plant and a filter plant of 3,000,000 gallons capacity.

*SOUTH RIVER, N. J.—Bids will be received by Charles Anderson, Boro. Clk., until 8 p. m., Feb. 13, for the construction of a suction well, 25 ft. in diameter and 33 ft. deep, of brick and concrete construction.

HONEY BROOK, PA.—The Honey Brook Water Co. is planning to construct a large reservoir in the spring.

WYOMISSING, PA.—The town is considering the construction of a water-works system and an electric light plant. Estimated cost, $80,000.

MIFFLIN, PA.—The Board of Commissioners of Mifflin Township on Dec. 29 granted permission to the South Pittsburg Water Co. to lay a 12-in. water main from Hays St. to Lincoln Pl.

LEXINGTON, VA.—The city will vote on Jan. 31 on the issuance of $75,000 of bonds to increase the water supply. It is proposed to secure supply from Moore's Creek and convey water by gravity to the present reservoir. The minimum supply obtainable is estimated at 252,000 gallons. Samuel B. Walker, Jr., is Mayor.

RED SPRINGS, N. C.—The city has voted bonds for the construction of water-works and a sewerage system, including an iron tank 190 ft. high, 125,000 gallons capacity. Estimated cost, $30,000. A. B. Pearsall is Mayor.

THOMASVILLE, N. C.—The construction of water-works and a sewer system is being considered by the city.

GAINESVILLE, GA.—The city has decided to extend the water-works system. E. B. Eppes is City Engr.

ATLANTA, GA.—W. Z. Smith, Gen. Mgr. Water-Works, has recommended to the Board of Water Commissioners the installation of two new 15,000,000-gallon vertical, triple-expansion pumping engines for the Hemphill station, and one new 20,000,000-gallon pump for the river station.

OCALA, FLA.—The cost of a new water system here has been estimated at $80,000. Address, J. M. Meffert, Board of Trade, Ocala.

MONTGOMERY, ALA.—The Montgomery Light & Water Power Co., Montgomery, is planning to spend $350,000 for increasing the capacity of its plant. Plans for enlarging the plant at Tallassee are being prepared.

JELLICO, TENN.—Preliminary plans have been completed by Walter G. Kirkpatrick, Jackson, Miss., for the construction of a gravity water-works system with supply from Mountain Springs, including about twelve miles of 10 to 6-in. c.-i. pipe, hydrants and valves and a 500,000-gallon reinforced-concrete reservoir. A. B. Mahon is Secy. Water and Sewer Comn.

LOUISVILLE, KY.—Bids will be received until 2 p. m., Jan. 24, by the Board of Public Works for the erection of 64 fire hydrants.

SILVERTON, OHIO.—Plans and specifications for laying water mains in 16 streets here have been completed. Contract will be let in February. Estimated cost, about $21,000. Fred Grillo is Village Engr.

CLEVELAND, OHIO.—The water system will be improved. Contemplated work includes the following: West Side water tunnel, estimated cost, $800,000; new water mains, $150,000; new pumps, $250,000; high pressure pumping station, $225,000. Robert Hoffman is City Engr.

KENTON, OHIO.—The City Council on Jan. 4 decided to proceed with the investigation of the water-works system.

WOOSTER, OHIO.—An ordinance has been passed by the City Council providing for the purchase and installation of one 100-HP. boiler, one 500 cu. ft. free air-capacity air compressor, pipe lines, building, and incidental appliances necessary for the operation of the municipal pumping station at the Bloomington reservoir. H. H. Franks is Clk.

TROY, OHIO.—Bids will be received until 10 a. m., Feb. 4, by A. E. Sinks, County Audr., for furnishing the material and performing the labor necessary to install water mains from the intersection of Water and Adams Sts. to the Miami County infirmary. Specifications on file at the County Auditor's office.

YOUNGSTOWN, OHIO.—Bids will be received by the Director of Public Service until noon, Jan. 21, for furnishing c.-i. pipe, special castings, water meters, water valves or gates, fire hydrants, alum, corporation cocks, curb boxes, c.-i. valve boxes and pig lead. W. H. McMillin is Clk.

TOLEDO, OHIO.—Bids will be received at the office of the Director of Public Service until noon, Feb. 14, for the construction of the extension of water purification works, being Contract No. 17 of the Improvement of Water Supply. The work to be done includes the construction of foundations, channels, filters, piping, building, including lighting and heating, the same forming an extension of the existing plant for purifying Maumee River water. The extension will consist of 14 filters and appurtenances and must be capable of purifying and delivering 14,000,000 gallons of water per day. Bids will be received based on the plans prepared under the direction of the Department of Public Service or on alternative plans prepared by the bidder and showing the equipment and appliances furnished by him. J. R. Cowell is Dir. Pub. Ser.

SUGAR CREEK, OHIO.—The contract for the construction of the water-works system will be awarded, it is reported, next month.

LOGANSPORT, IND.—The City Council is planning to install a new 6,000,000-gallon pump at the water-works plant. Harry Klinch is Supt. Water Dept.

MITCHELL, IND.—S. D. Rowland, who recently purchased the municipal electric light plant, has been granted a franchise to construct and operate a water system.

HAMMOND, IND.—The Water Board has awarded the contract to the GREAT LAKES DREDGE & DOCK CO., 138 Washington St., Chicago, Ill., for the water tunnel under the river at Calumet Ave., at $9,200.

DETROIT, MICH.—The Board of Water Commissioners is endeavoring to have their bonding limit increased from $1,500,000 to $3,000,000. If this increase is allowed a number of extensions will be made among which will be a 16-in. main under Waterloo St., and the extension of the present 42-in. main under West Jefferson St.

MARQUETTE, MICH.—Hering & Fuller, 170 Broadway, New York, are preparing plans for a submerged intake pipe line for the city to include about 2,500 ft. of 30-in. c.-i. or concrete piping, with flexible joints.

MUSKEGON, MICH.—We are officially advised that Riggs & Sherman, Consult. Engrs., 613 The Nasby, Toledo, Ohio, have been engaged to prepare plans and specifications for extensive improvements to the municipal water system.

CHICAGO HEIGHTS, ILL.—All bids for extending the water mains in Chicago Road have been rejected.

STANFORD, ILL.—The citizens have voted to construct a water-works system with a new central plant and mains to every portion of the town. Estimated cost, $13,500.

*CHICAGO, ILL.—Bids will be received at the office of B. J. Mullaney, Comr. Pub. Wks., until 11 a. m., Jan. 27, for furnishing and installing in place two 20,000,000-gallon centrifugal pumps and two 1,000-HP. synchronous electric motors together with piping, wiring, switchboard and other appurtenances at the 22d St. pumping station.

Bids will be received until Jan. 21 by the city for furnishing 12,500 lbs. of packing of various kinds to the city water pumping stations, as required during the period ending Dec. 31, 1911; also separate bids for furnishing delivering f. o. b. cars Chicago at the city pipe yards, 2354 South Ashland Ave., tapping connections of various sizes during the period ending Dec. 31, 1911; and separate bids for furnishing and delivering at the same yards about 15 tons of lead pipe.

MENASHA, WIS.—The City Council is considering the purchase of a new engine and other equipment for the city water and lighting plant.

MERRILL, WIS.—Improvements, including the installation of machinery, the erection of a stand pipe and settling tank, the enlargement of the buildings, the laying of additional mains, etc., will be made by the City Water Works Co., next spring. Estimated cost, $50,000.

NEW LIBSON, WIS.—The installation of a municipal water-works system has been voted upon favorably.

AUBURN, IOWA.—The city is considering an issue of bonds for $10,000 for the construction of a water-works system.

NEWTON, IOWA.—We are officially advised that the city has awarded the contract to the DES MOINES BRIDGE & IRON CO., Des Moines, Iowa, for the construction of a steel water tank, upon a steel trestle 100 ft. high and with a capacity of 100,000 gallons, at $5,406.

EVELETH, MINN.—The Water Department is considering the purchase of a new pump and the laying of a 16-in. main from the city line to the pumping station at St. Mary's Lake.

ST. PAUL, MINN.—The city is considering an issue of $100,000 of lands for extensions and improvements to the water system. Andrew Rinker is City Engr.

MINNEAPOLIS, MINN.—Hering & Fuller, Consult. Engrs., 170 Broadway, New York, are completing plans for water supply for the city. Work will include concrete tanks, c.-i. pipe, etc.

ST. JOSEPH, MINN.—Plans are being prepared for the extension of the water-works plant.

EASTON, MINN.—The citizens have voted to issue bonds for the erection of a steel tower and tank.

NEWTON, KAN.—The contract for furnishing a 2,500,000-gallon pumping engine was awarded on Jan. 5 to the LAIDLAW-DUNN-GORDON CO., Scarritt Bldg., Kansas City, Mo.

STAFFORD, KAN.—J. A. BORTENLANGER, Omaha, Neb., has been awarded the contract for the construction of a system of water-works for the city. J. S. Worley & Co. are Engrs., Reliance Bldg., Kansas City, Mo.

ONAGA, KAN.—We are officially advised that the general contract for the construction of new water-works here has been awarded by the city to W. W. COOK & SON, Junction City, Kan. Contracts for steel tower and tank, and hydrants and valves were awarded to the CHICAGO BRIDGE & IRON CO. and EDWARD J. MERKLE. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

CHADRON, NEB.—The city will extend the water mains. H. D. Mead, Chadron, will supervise the work. Estimated cost, $38,000. Bonds have been voted.

FAIRBURY, NEB.—Bonds have been sold for water-works and electric lighting improvements here. Estimated cost, $40,000. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

FARGO, N. DAK.—The City Council is considering the construction of a mechanical filtration plant, to be located in Island Park. F. J. Anders is City Engr.

HELENA, MONT.—The city has authorized a bond issue for $650,000 for the installation of a municipal water plant. Charles W. Helmick is City Engr.

GLASGOW, MO.—Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are preparing plans for the construction of water-works and sewers here. Estimated cost, about $35,000.

CHAFFEE, MO.—The city has decided to construct a water-works system. M. S. Murray, Sikeston, Mo., is Engr.

KANSAS CITY, MO.—The Board of Fire and Water Commissioners will ask for bids for two new water mains in the Country Club district, south of 42d St. One of the new mains will extend from 42d St. and Broadway to 55th St. and Broadway, and the other along 55th St., from Broadway to Troost Ave. The first will be a 16-in. main and the second a 12-in. main. J. L. Darnell is City Engr.

ST. LOUIS, MO.—Favorable action has been taken by the Assembly Committee on Streets, on the request of the Water Board for authority to issue $100,000 of bonds for improvements outside the city limits this year. Maxine Reber is City Engr.

DALLAS, TEX.—KINNISON BROS., Dallas, have been awarded the contract for the construction of an 8-in. pipe line in Pacific Ave., from Trinity River to Harwood St., at $7,280.

HEARNE, TEX.—See item under Light and Power Plants.

GEORGETOWN, TEX.—Bids will be received until Jan. 23 by R. E. Ward, Mayor, for furnishing about 300 tons of Class "B" c.-i. water pipe. F. H. Lancashire is Consult. Engr., Dallas, Tex.

LUBBOCK, TEX.—The cost of the proposed water-works and sewers has been estimated at $85,000. E. L. Dalton, Dallas, Tex., is Engr.

FORT WORTH, TEX.—In a preliminary report to the city, engineers employed by the city to find a suitable site for a surface reservoir on the river above the city have announced that an adequate supply of surface water can be secured on either fork of the Trinity River, with a site, at a cost of about $1,000,000. Two suitable sites on the clear fork were recommended, and one on the west fork. J. D. Trammell is City Engr.

GUTHRIE, OKLA.—The City Council has passed a resolution providing for the appropriation of $20,000 for laying water mains.

*FOWLER, COLO.—Bids will be received until Jan. 26 and not Jan. 6, as incorrectedly noted last week, for the consoruction of a dam for Omer Reservoir No. 1, a diversion dam, headworks and sluice gates for the Omer Canal, and for the removal of about 100,000 cu. yds. of earthwork in the extension and enlargement of the canal, and for furnishing cement, valves, steel and other material necessary for the construction of the works. Plans, specifications and other particulars may be obtained at the office of the District at Fowler, or at the office of the Field, Fellows & Hinderlider Engineering Co., 435 Century Bldg., Denver, Colo. E. H. Hall is Secy.

MONTROSE, COLO.—The Secretary of the Interior has authorized the Reclamation Service in connection with the Uncompahgre irrigation project, Colorado, to construct by force account the Cedar and Spring laterals, involving an estimated expenditure of $35,000 for both. C. T. Pease is Project Engr., Montrose.

ENGLE, N. MEX.—The Secretary of the Interior has authorized the Reclamation Service to renew a contract with the ELEPHANT BUTTE WATER USERS' ASSOCIATION for the delivery of water for the irrigation of certain lands in the Rio Grande Irrigation Project, New Mexico. The object of the contract is to provide for the delivery of water temporarily upon a rental basis to irrigated lands under the Leasburg section of the project pending the formal opening of that portion of the project under the terms of the Reclamation Act. The water is to be conveyed through the Leasburg Canal and delivered to the Dona Ana, Las Cruces, and Mesilla Community ditches during the season of 1911. The charge for water is fixed at 10 cts. per acre-ft. of water delivered to the ditches. H. J. Gault is Engr., Engle.

CIMARRON, N. MEX.—The contract for the construction of water-works has been awarded, it is reported, to the COOK & GREGORY CONSTRUCTION CO., Joplin, Mo., at $32,329. Bids were opened on Dec. 20. List of bidders noted on Jan. 5.

BOISE, IDAHO.—In accordance with the report of the Board of Consulting Engineers of the Reclamation Service, the Secretary of the Interior has tentatively allotted the sum of $1,000,000 to expedite the work on a storage reservoir in the Boise River for the Boise irrigation project, Idaho. Negotiations are authorized for the construction of a railroad or in the event of failure of such arrangement to build a suitable road to the dam site at Arrow Rock. Authority is granted also to erect the necessary power plant and transmission lines to excavate diversion tunnels, secure necessary rights-of-way and all other details preliminary to actual construction of the large dam in the Boise River. This structure will be one of the highest dams in the world and its construction offers a very difficult problem in engineering. F. W. Hanna is Project Engr., Boise.

BIZBEE, ARIZ.—We are officially advised that the Bizbee-Naco Water Co., is excavating and leveling a site for a steel water tank of 520,000 gallons capacity, and a dam 62 × 25 ft. high. To clear the site 3,100 cu. ft. of rock will have to be moved. Noted on Dec. 29.

ROOSEVELT, ARIZ.—The Secretary of the Interior has granted authority to the Reclamation Service to purchase nine 300-KW. 26,000-volt 25-cycle transformers from the WAGNER ELECTRIC MFG. CO., St. Louis, Mo., at $16,065. This purchase is supplemental to a former contract for similar machinery bought for use in connection with the power plant on the Salt River irrigation project, Arizona.

LEAVENWORTH, WASH.—The city is preparing for the construction of a new water system, which will be completed next year. At the recent election the issue carried. Estimated cost, $40,000.

FORT GEORGE WRIGHT, WASH.—Bids will be received until 11 a. m., Jan. 28, by Lieut. A. L. Sneed, Constr. Q. M., U. S. A., for sinking one 10-in. tubular deep well at this post.

GRANGER, WASH.—The Mayor and Council have instructed the City Engr. to draw plans and specifications for a water system. As soon as presented a vote will be taken to put in a water-works system and provide a fire department equipment.

REDMOND, WASH.—The city is considering the construction of a gravity water system.

WALLA WALLA, WASH.—The City Council has awarded the contract to the GILBERT HUNT CO., Walla Walla, for furnishing 6,000 ft. of 20-in. riveted steel pipe, at $5,850.

WENATCHEE, WASH.—C. H. Holbert, Mayor, has recommended the construction of a new water system. F. E. Powell is City Engr.

HERMISTON, ORE.—The Reclamation Service has been authorized by the Secretary of the Interior to begin, immediately, the necessary additional surveys and examinations preliminary to construction work on the western extension of the Umatilla reclamation project, Oregon. When completed from 20,000 to 25,000 acres of public lands, included within the limits of the proposed extension, will be reclaimed. H. D. Newell is Project Engr., Hermiston.

ONTARIO, CAL.—Bids will be received by N. O. Brackenridge, City Clk., until Jan. 25, for the construction of the municipal water system. The sum of $175,000 is available for the work. Bids will be taken separately as follows: For the pipe and specials f. o. b. cars Ontario; for taking pipe and specials from cars and completing construction; for furnishing all labor and material for the entire work, or for any part of the labor or material. The work will include the laying of 150,000 ft. of pipe and specials, mostly 1, 6 and 8-in. w.-i. pipe and 8, 10 and 14-in. riveted steel mains. F. E. Trask, Laughlin Bldg., Los Angeles, Cal., is Engr. Bids will be asked later on for a reservoir and pumping plant.

SACRAMENTO, CAL.—The Board of City Trustees has decided to install a steam pump for the city pumping plant. G. N. Randle is City Engr.

LOS ANGELES, CAL.—The Board of Water Commissioners will receive bids until Jan. 30 for 1,135 tons of bell and spigot standard c.-i. water pipe. J. P. Vroman is Secy.

ESCONDIDO, CAL.—Increasing the impounding capacity of the reservoir by adding to the height of the dam, the expense to be borne by bonding the system, is the issue which is being urged by the Mutual Water Co., which desires the distributing mains extended to the sections of the valley which are not served with the water from the system. It is reported that the Escondido Land & Town Co., one of the largest holders of the shares in the water company, is now in favor of the bonding plan and that some of the larger irrigators who have been opposed to it have expressed themselves in favor of the improvement.

SAULT AU RECOLLET, QUE.—The Council is considering the construction of a water system and sewerage. Estimated cost, $40,000.

ST. CATHARINES, ONT.—The citizens have voted to issue bonds for a duplicate water main from Decle Falls to St. Catharines. Alexander Milne is Supt. W.-Wks.

CAMROSE, ALTA.—The town will install a water-works system this summer to cost $100,000. Address M. A. Maxwell.

SEWERS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—A sewer will be installed in Dartmouth St. from Huntington Ave. to Beacon St. The section in front of the Boston public library is being built by the city.

SPRINGFIELD, MASS.—The question of changing the location of the main trunk sewer on Depot St. is being considered here.

BUFFALO, N. Y.—The City Council has directed the preparation of plans by the Commissioners of Public Works for construction of tile sewers in the south side of Kenmore Ave., between Elmwood Ave. and Eugene St. and in Nebraska Pl, Colvin Pl, Amos Pl., and Orson Pl., between Kenmore Ave. and their southerly ends; also in the west side of Eugene St., between Kenmore Ave. and 285 ft. southerly.

NEW YORK, N. Y.—Bids will be received by Alfred E. Steers, Pres., of the Boro. of Brooklyn, Boro. Hall, New York, until 11 a. m., Jan. 25 (No. 1), for furnishing all the labor and material required for constructing a sewer in Coney Island Ave., both sides, from about the southerly property line of the Long Island Railroad (between Avenues H and I) to Ave. K; (No. 2), for a sewer in Tapscott St., between East New York and Sutter Ave., and an outlet sewer in Tapscott St., between Sutter Ave. and East Ninety-Eighth St., and tributary sewers in Sutter Ave.. between Union and Tapscott Sts. and in Blake Ave., between Union St. and Howard Ave; (No. 3) for sewers in Gravesend Ave., west side, between Ave. I and Ave. J, in the east side, from a point about 100 ft. north of Ave. I to Bay Parkway, and sewer basin at the northwest corner of Gravesend Ave. and Ave. I; (No. 4), for sewer in 57th St., from Fort Hamilton Ave. to 12th Ave; (No. 5), for sewers in Newport St., from Christopher Ave. to Sackman St., and in Lott Ave., from Watkins St. to Stone Ave., and Sewer basins at the northeast and northwest corners of Riverdale Ave. and Powell St.; at the northeast corner of Newport St. and Thatford Ave.; at all four corners of Newport St. and Stone Ave.; at the northeast corner of Newport St. and Sackman St.; at the northeast and northwest corners of Newport St. and Powell St., and at the northeast and southeast corners of Lott Ave. and Stone Ave.; (No. 7), for sewer in Russell, between Meserole and Norman Aves.; (No. 8), for sewer in Stockholm St., between St. Nicholas Ave. and the Borough line; (No. 9), for sewer in Benson Ave., north side, from Bay Twenty-second St. to Bay Twenty-third St., and sewer basin on Benson Ave., at the East corner of Eighteenth Ave., at the north and east corners of Bay Nineteenth St., at the East and south corners of Bay Twentieth St., and at the north and east corners of Bay Twenty-second St.; (No. 10), for sewer in 57th St. between New Utrecht and 14th Aves.; (No. 11), for a sewer basin at the northeast corner of Surf Ave. and West Eleventh St.; (No. 12), for sewer basin at the westerly corner of Stockholm St. and Evergreen Ave.; (No. 13), for a sewer basin at the west corner of 57th St. and 13th Ave. Further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, the Borough of Brooklyn, 215 Montague St., Brooklyn.

NEW YORK, N. Y.—Bids will be received by Geo. McAneny, Pres. of the Boro. of Manhattan, until 2 p. m., Jan. 26: No. 1, for furnishing all the labor and material required for the construction of sewer in Buena Vista Ave., between 177th St. and Summit South of 172d St.; No. 2, for the construction of extension to outlet sewer at the foot of 120th St., Harlem River; No. 3, for constructing, alteration and improvement to sewer in 114th St., between First and Third Aves; No. 4, for constructing, alteration and improvement to sewer in 56th St., between First and Second Aves.; No. 5, for constructing receiving basin on the southwest corner of 129th St. and Seventh Ave.; No. 6, for constructing receiving basin on the southwest corner of 113th St. and St. Nicholas Ave.

PORT CHESTER, N. Y.—The Board of Trustees have engaged F. D. Odell, Engr., to draw plans for a $100,000 sewerage disposal plant. The contract for paving lower Purdy Ave., was awarded to MICHAEL DI LEO, the lowest of 3 bidders, for $12,666.25.

EAST AURORA, N. Y.—The question of constructing a sewerage system is being conproposed system will cost about $100,000. Frederick K. King, Engr., Buffalo, N. Y., is interested.

ROME, N. Y.—The construction of a sewerage disposal plant is being contemplated by the water and sewer Board. The estimated cost is about $150,000.

TROY, N. Y.—Bids will be received until 11 a. m., by the Board of Contract and Supply, for the labor, services and materials required in the construction of a salt glazed vitrified drain pipe sewer in Thirteenth St., from a point about 65 ft. south of the south line of South St. to present sewer. Plans and specifications may be seen at the City Engineer's office, James M. Riley is Secy.

CALDWELL, N. J.—See item under Water Supply—Irrigation.

NORTH PLAINFIELD, N. J.—Plans are being prepared by George Fuller, 170 B'way, for the construction of a sewer, sewerage system and disposal plant for North Plainfield. The estimated cost is about $100,000.

NEW CASTLE, PA.—An ordinance has been passed authorizing the installation of sanitary sewer in Lee and Williard Ave.

NORRISTOWN, PA.—The Health Dept., has ordered a disposal plant to be constructed in Norristown, Pa.

BALTIMORE, MD.—Bids will be received at the office of the Supt. of the Maryland Asylum and Training School, until Feb. 1, for a sewerage disposal system for the Maryland Asylum and Training school. Frank W. Keating, M. D., is Supt.

ATLANTA, GA.—Bids will be received by the Mayor until 3 p. m., Feb. 6, for the construction of all the sewers that may be passed up by the Mayor in 1911. R. M. Clayton is City Engr.

PALATKA, FLA.—Bids will soon be received by the city for the installation of 4,000 lin. ft. of 24-in. storm sewers, S. C. Stallings, is City Engr.

PENSACOLA, FLA.—A gravity system of sewers and drains 66 to 8 ins. in size, will be constructed by the city. George Rommel, is engineer in charge. The estimated cost is over $100,000.

ENSLEY, ALA.—A concret[illegible]ptic tank will be constructed by the Je[illegible] County Board of Revenue to purify dr[illegible] of Sanitary sewer system. The est[illegible] cost is $50,000.

BIRMINGHAM, ALA.—A sew[illegible]ll be constructed in the section of the [illegible] Highlands, located near the foo[illegible] the Red Mountain in the Eighteenth St. [illegible]borhood. It will cost approximately $8[illegible]

AKRON, OHIO.—A sewage [illegible]sal plant is under consideration here. [illegible] estimated cost is about $350,000. E. [illegible] Bradbury, Columbus, is the engineer.

ELYRIA, OHIO.—Bids will b[illegible]ceived by the Director of Public Servic[illegible] until noon, Jan. 20, for the construction [illegible] a sewer, beginning at the drop manhole [illegible] the East Side outlet thence easterly 2,5[illegible] to the center line of Gulf St.; also in G[illegible] St., from the center line of Hamilton St. [illegible] the center line of Poplar St.; in Poplar S[illegible] from Gulf St., to Abbe Rd.; also Hamil[illegible] St. from the center line of Gulf St. to th[illegible] flush tank at the east end of Hamilton St[illegible] Plans and specifications at the office of A[illegible] and in the office of the Public Service.

GENOA, OHIO.—The Council o[illegible] village of Genoa, has declared it neces[illegible] to construct sewers in subdivision A. o[illegible]st. 1, in the Genoa, Phillip E. Manner is [illegible]yor.

YOUNGSTOWN, OHIO.—Bids [illegible] be received by the Director of Public S[illegible]ce until noon, Jan. 20, for furnishing th[illegible]ecessary labor and materials for the [illegible]ring of Homewood St., between Japan St. [illegible] Campbell St.

LORAIN, OHIO.—Bids will be [illegible]ived by the Director of Public Service [illegible] noon, Jan. 27, for the construction o[illegible] storm water sewer in the Dallas Ave. [illegible]m Water Sewer Dist. The approximate quantities are as follows: 3,375 lin. ft. [illegible] brick sewer, 500 lin. ft. 68-in. brick sew[illegible] 55 lin. ft. 42-in. brick sewer, 460 lin. [illegible] 24-in. pipe sewer, 750 lin. ft. 20-in. pipe sewer, 550 lin. ft. 18-in. pipe sewer, 750 lin. [illegible] 12-in. pipe sewer, 15 intakes and 11 manholes. L. B. Johnston is Clk.

RICHMOND, IND.—Bids will be received by the city until Jan. 26 for the installation of 4,200 ft. of 12 to 42-in. sewer. Fred. R. Charles is Cy. Engr.

CHAMPAIGN, ILL.—Bids will be received until 2 p. m., Jan. 27, by the Commissioners of Hillsbury Slough Special Drainage District of Champaign and Ford Counties, at law office of Ray & Dobbins, Champaign, until 2 p. m., Jan. 27, for furnishing, hauling and laying tile in sub-district No. 1.

*CHICAGO, ILL.—Bids will be received until 11 a. m., Jan. 27, by the Commissioners of Public Works, City Hall Building, for furnishing and installing in place two 20,000,000-gallon centrifugal pumps and two 1,000-HP. synchronous electric motors, together with piping, wiring, switchboard and other appurtenances, at the 22d St. pumping station. Plans and specifications on file in the office of the Department of Public Works of said city, room 705, City Hall, 200 East Randolph St.

ALBERT LEA, MINN.—The Contract has been awarded to PASTORET AND LAWRENCE, Duluth, for lateral sewer No. 14, at $1,600.

CARRINGTON, N. DAK.—Bids will be received until Jan. 20 by the Board of Commissioners of Foster County, for digging of trenches, laying sewer pipe, water main, electric light and telephone conduits and the back filling of such trenches necessary for the connection of the Court House and Jail with the sewer and water mains of the city. Plans and specifications at office of C. W. Burnham, County Audr.

GLASGOW, MO.—See item under Water Supply—Irrigation.

LUBLOCK, TEX.—See item under Water Supply—Irrigation.

WICHITA, FALLS, TEX.—The City Council awarded the contract for building storm sewers in the business district to I. H. ROBERTS, Wichita Falls, at $14,000.

DUNCAN, OKLA.—The city has voted on an issuance of $38,000 bonds for construction of sewer system; W. L. Benham is Civil Engineer, Oklahoma City, Okla.

COLORADO SPRINGS, COLO.—City Attorney Nickerson has been instructed to draw up an ordinance authorizing the construction of a storm sewer in the business section. The estimated cost is $48,000.

POCATELLO, IDAHO.—Hering & Fuller, 170 Broadway, Consulting Engrs., have prepared plans for the installation of a sewerage system for the city of Pocatello. W. A. Sammie is City Engr. The estimated cost is about $165,000.

TUCSON, ARIZ.—The following contracts have been awarded for the construction of the sewer system in the southwest portion of the city: The contract for the pipe was awarded to the PACIFIC SEWER PIPE CO., of Los Angeles, Cal., at a cost of $[illegible],000. The TUCSON CONCRETE CONSTRUCTION CO., secured the contract for laying the street sewers, at $4,856; The ARIZONA HOME BUILDING & CONSTRUCTION CO., secured the contract to put in the outfall sewer at $996. The manholes will be furnished by the Tucson Iron Works a[illegible] $13 each and the lamp holes at $5.50.

CHEHALIS, WASH.—W. J. MURPH[illegible] Tacoma, has been awarded the contract f[illegible] the installation of the big South Chehalis [illegible]wer at $51,258.

ELLENSBURG, WASH.—DEAN & HA[illegible]KIE Ellensburg, have been awarded the co[illegible]ract for the construction of the southeast se[illegible]er.

MONROVIA, CAL.—Bids were opened Jan. 3, by the Board of Trustees of Monrov[illegible] for the construction of a municipal sewer system. Bids were taken on two proposi[illegible]ns, schedule A, being for furnishing all [illegible]bor and material complete; schedule B, bei[illegible] for furnishing labor only exclusive of vi[illegible]fied pipe, brick and cement; under schedu[illegible] A, the following bids were received: Ukro[illegible]a & Miletich, of Los Angeles, $78,889; [illegible]ich & Fomich, of Los Angeles, $83,273; [illegible] C.

Lowell, $85,741; Register & Hendricks, of Los Angeles, $87,770; Zambica & Nikcevich, $87,773; Chamberlain & Williamson, Pasadena, $89,180; E. R. Werdin, Los Angeles, $89,944; John Balch, Los Angeles, $90,727; B. R. Davison, of Monrovia, $94,218; Andraw Hollaway, of Pasadena, $95,110; J. D. Kneen, $96,892; W. A. Frick, $98,908; Peter Gr...h, L. A., $99,031; A. S. Bent, L. A. ..., Thomas H. Shea, $105,919; Westlake Construction Co., $113,008. Under schedule B, the following bids were opened: Pekich & Fomich, $41,115; Register & Hendricks, $43,306; Andrew Hollaway, $43,743; C. Lowell, $43,895; John Balch, $4...79; Chamberlain & Williamson, $50,000; ...mer & Rice, $79,671.70. Bids for materials were received as follows: vitrified pipe, by Pacific Sewer Pipe Co., $38,-270.56; concrete pipe by Reinforced Concrete Pipe Co., $11,000; brick, by Los Angeles Pressed Brick Co., $10 per M, Standard Brick Co., $... per M. Total amount $2,000. Cement by Riverside Portland Cement Co., $3,000. Engineers Olmstead & Gillelen, Wright & Callender Bldg., Los Angeles, report that the bid of Kopina & Miletich, 112 Commercial St., Los Angeles, for constructing sewer complete for $78,889 is the lowest. The aproximate quantities required are: 118,600 ft. 6-in. sewer, ...50 Y's; 10,000 ft. 8-in. sewer, 160 Y's; ... ft. 10-in. sewer, 186 Y's; 3,160 ft. 12-in. sewer, 50 Y's; 1,200 ft. 14-in. sewer, 16 Y's; ...,000 ft. 16-in. sewer, 60 Y's; 9,700 ft. 24-in. sewer, no Y's; 229 brick manholes, 67 flush tanks.

MONTREAL, QUE.—The Board of Commissioners will receive until noon, Jan. 20, bids for the construction of a 2 ft. × 3 ft. sewer in Boulevard Ave., from Decarie Ave., via St. L... Rd., to the limits of Westmount. All information required will be given at the office of the Superintendent of Sewers, L. N. Senecal is Secy.

SAULT AU RECOLLET, QUE.—See item under Water Supply—Irrigation.

GARBAGE DISPOSAL.

*(*Denotes that this work is advertised in Engineering News.)*

EVERETT, MASS.—Bids for garbage collection for 1911, 1912 and 1913 will be received until Jan. 23 by the Board of Health. A. H. St. Clair Chase is Chn.

BOSTON, MASS.—The following bids were received on Jan. 14 by Louis K. Rourke, Supt. of Sts., for the removal of ashes: South Dorchester district, John H. Winsloe Contracting Co., $17,610; John D. Lyons, $18,700; D. M. Biggs & Co., $19,500; John J. Loomie, $19,950. West Roxbury district, John J. Moore, $8,160; Thomas J. Shea Co., $8,520. Dorchester district, John J. Bradley, $21,500; John H. Winsloe Contracting Co., $21,879; D. M. Biggs & Co., $24,721; John J. Loomie, $29,000. Brighton district, J. McGreevey, $11,280; Joseph Sprissler, $11,800; B. E. Grant, $12,000; John H. Carter, $14,-503; John Kelley, $15,425.

NEW YORK, N. Y.—William H. Edwards, Comr. of St. Cleaning, opened bids on Jan. 17, as follows, for the final disposition of garbage in the Boroughs of Manhattan and The Bronx, from Aug. 1, 1911, to Sept. 1, 1912: Cove Chemical Co., $78,000 per year; Sanitary Utility Co., 30 Church St., New York, $45,000 per year.

NEW YORK, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Jan. 25, for Contract No. 1266, for furnishing all the labor and materials required for sprinkling certain new-made land on the North and East Rivers, Boro. Manhattan.

We are officially advised that bids were received as follows, on Jan. 10, by George Cromwell, Pres. Boro. Richmond, for all labor and materials required for the construction of the furnaces, steam boilers and appurtenances of the Clifton destructor, Boro. Richmond: (a) lump sum bid price for construction; (b) guaranteed cost of incineration per ton; (c) basis of award, value of plant to city on annual operating basis; (d) annual costs; (e) gross costs per ton: The Macdonald Engineering Co., 98 Jackson Boulevard, Chicago, Ill., (a) $50,350; (b) 70 cts.; (c) $105,151; (d) $18,915; (e) $1.57. The Destructor Co., 111 Broadway, New York, (a) $67,867; (b) 50 cts.; (c) $106,020; (d) $16,602; (e) $1.38.

JACKSONVILLE FLA.—The City Council, on Jan. 3, passed an ordinance, it is reported, authorizing the Board of Public Works to spend $25,000 for a suitable site upon which to erect a garbage crematory.

LESTERSHIRE, N. Y.—The construction of a garbage disposal plant is under consideration by the Board of Village Trustees. Bids will soon be asked.

TOLEDO, OHIO.—E. E. Dow and Charles Fox, bidding jointly, on Dec. 31, offered 10 cts. per load of two cubic yards for all city street sweepings for a period of ten years; for 5-year contract, 9 cts. If the bid is accepted the city is to deliver the sweepings at five dumps, the location of which is to be mutually agreed upon. Loading stations also are to be erected.

RACINE, WIS. — The Council is investigating the feasibility of constructing a garbage incinerator.

ST. LOUIS, MO.—Contracts for sprinkling streets were awarded on Dec. 30 by the Board of Public Improvements: WILLIAM H. REDEMEYER was awarded 19 contracts, and STEPHEN J. RATICAN seven districts. The contractor and the contract price in each district follows: District (1) HEMAN CONSTRUCTION CO., $3,600; (2) STEPHEN J. RATICAN, $5,113; (a) same, $6,01..; (4) PETER FABRICK, $4,490; (5) WILLIAM H. REDEMEYER, $7,300; (6) TIMOTHY E. CAVANAGH, $9,189; (7) WILLIAM H. REDEMEYER, $7,390; (8) HEMAN CONSTRUCTION CO., $9,500; (9) WILLIAM H. REDEMEYER, $9,000; (10) same, $9,800; (11) STEPHEN J. RATICAN, $5,2..; (12) same, $5,213; (12) WILLIAM H. REDEMEYER, $9,700; (13) same, $4,-800; (14) same, $6,800; (15) same, $8,978; (16) TIMOTHY F. CAVANAGH, $7,800; (17) WILLIAM H. REDEMEYER, $7,090; (18) same, $5,700; (19) HEMAN CONSTRUCTION CO., $5,400; (20) WILLIAM COGAN, $6,475; (21) WILLIAM H. REDEMEYER, $5,890; (22) JAMES DAVIS CONTRACTNG CO., $4,777; (23) JOHN McMAHON $3,517; (25) CHARLES A. KALBELL, $4,950; (25) STEPHEN L. RATICAN, $7,513; (26) same, $5,713; (27) JAMES DAVIS CONTRACTING CO., $5,500; (28) WILLIAM H. REDEMEYER, $4,000; (29) same, $4,900; (30) WILLIAM COGAN, $6,-200; (31) WILLIAM H. REDEMEYER, $9,500; (32) FRANK A. STIERS, $5,499; (33) WILLIAM H. REDEMEYER, $4,700; (34) same, $5,800; (35) FRANK A. STIERS, $8,730; (36) WILLIAM H REDEMEYER, $8,100; (37) same, $6,400; (38) same, $6,370; (39) STEPHEN J. RATICAN, $4,213; (40) same, $8,813. Total, $260,436.

OKLAHOMA CITY, OKLA. — Alexander Potter, 116 Liberty St., New York, N. Y., has been selected, it is reported, to prepare plans for the construction of a garbage disposal plant.

WINNIPEG, MAN.—The city is considering the construction of a garbage destructor, with a daily capacity of 100 tons. Address A. Wallace, Alderman.

STREETS AND ROADS.

*(*Denotes that this work is advertised in Engineering News.)*

BOSTON, MASS.—Bids were received on Jan. 10 by Louis R. Rourke, Supt. of Sts., for 25,000 sq. yds. binder and surface, furnished and laid; 2,500 sq. yds. surface repaired by heater; 100 cu. yds. extra binder furnished and laid; 500 sq. yds. concrete base, furnished and laid. The bids were as follows: Warren Bros., 59 Temple Pl., $1.34, 90 cts., $9.00, $1.00; total, $37,150. Barber Asphalt Paving Co., of Cambridge, $1,395, 80 cts., $10, $1.29; total, $39,520. Jones & Meehan, 10 Tremont St., $1.44, $1.25, $7.50, 75 cts.; total, $40,250. The contract has not yet been awarded.

LAWRENCE, MASS.—The estimated cost of paving Park St., from Hampshire to Berkeley St., has been estimated at $29,000. A. D. Marble is City Engr.

BUFFALO, N. Y.—The City Council has authorized the Commissioner of Public Works to advertise for bids for paving Elmwood Ave., from Hertle Ave. to the International Bridge branch of the Erie R. R. The paving may be of either brick or asphalt. Francis G. Ward is Comr. Pub. Wks.

NEW YORK, N. Y.—Bids will be received by the Department of Docks and Ferries, Calvin Tomkins, Comr., until noon, Jan. 25, for repairing the asphalt pavement along the North, East and Harlem Rivers.

The bids received by the Park Commissioners for repaving with asphalt block the 79th St. transverse road through Central Park, have been rejected as excessive. The amount appropriated for this work is $25,-000.

MIDDLEPORT, N. Y.—The County Supervisors have voted for the improvement of the Carmon Roads, leading from the Ridge Road to Middleport. John C. Taylor, of Hartland (Gasport post-office) is Superv. Estimated cost, about $9,000.

YONKERS, N. Y.—The Common Council has directed Samuel L. Cooper, City Engr., to prepare plans and specifications for widening Warburton Ave. for several blocks.

SYRACUSE, N. Y.—Bids will be received until 1.30 p. m., Jan. 23, for furnishing materials and constructing a stone, cement, asphalt or brick sidewalk 5 ft. wide, on the south side of Hamilton St., from Avery Ave. to Willis Ave. Plans and specifications are on file at the office of the Board of Contract and Supply. George R. Metz is City Clk.

YONKERS, N. Y.—The Department of Public Works has decided on the following improvements: Laying out and opening of Frederic St., from Voss Ave. to Morsemere Ave.; Springer Ave., from Bronx River Road to Vredenburgh Ave.; Marlborough Road, from Vista Ave. to Stratford Ave.; Bellevue Ave., from the north line of lot 452 Bellevue Ave. to Bolmer Ave.; Fairview Ave., from Albemarle Pl. to Mile Square Road.

PORT CHESTER, N. Y.—See item under Sewers.

ALTOONA, PA.—The Board of Public Works has awarded the contract for street paving to the BELL-DECKEL CO. Estimated cost, $300,000.

PHILADELPHIA, PA.—Bids will soon be asked by the Department of Public Works for razing the properties on the line of the Parkway, between Filbert and Cuthbert Sts. George R. Stearns is Dir. Pub. Wks., and John E. Reyburn, Mayor.

PHILADELPHIA, PA.—See item under Bridges.

PITTSBURG, PA.—The Street Department has asked for an appropriation of $150,000 for paving a number of the city streets.

BALTIMORE, MD.—John J. Hurst, Calvert Bldg., has purchased the Biddison farm of 228 acres on Middle River, near here, and will establish suburban development. Redding & Howard, Engrs., 11 East Lexington St., have been engaged to make surveys for landscaping, macadam streets, concrete walks and gutters and to arrange for sewerage and water systems. The first improvements will cost about $10,000.

NORFOLK, VA.—The cost of paving Church St., from Main St. to the southern boundary of the Ninth Ward, has been estimated at $100,000. W. T. Brooke is City Engr.

HUNTINGTON, W. VA.—Bids will be received by the Board of Commissioners until 1 p. m., Feb. 6, for approximately 124,500 sq. yds. of street paving and 69,100 lin. ft. of curb. Plans and specifications on file in the office of A. B. Maupin, City Engr.

ATLANTA, GA.—Bids will be received until 3 p. m., Feb. 6, at the office of the City Clerk for the following work: Furnishing and setting concrete and granite curbing; furnishing and laying brick, tile and sheet cement sidewalks; also tile and sheet cement for repairs of sidewalk; furnishing cement for repairs for ordinary street work. R. M. Clayton is City Engr.; J. P. Foster is City Clk.

ATLANTA, GA.—The proposed Atlanta to Porter Springs highway will be constructed as soon as the weather permits. The road will pass through Roswell, Alpharetta, Cumming and Dahlonega.

ST. PETERSBURG, FLA.—We are officially advised that the contract for grading and paving Second St. for a distance of 43,000 lin. ft., was awarded on Jan. 5 to the GEORGIA ENGINEERING CO., of Augusta.

TAMPA, FLA.—Bids will be received until 2 p. m., Feb. 7, for paving 1½ miles of road southward from Six-Mile Creek. The paving is to be of shell, 10 ft. wide. George P. Sullivan is City Engr.

BIRMINGHAM, ALA.—The contract for laying granitoid pavement on Ave. B, from 18th St. to 20th St. and on Ave. D, from 18th St. to 21st St., has been awarded to the McCARTIN CONSTRUCTION & CONTRACTING CO. The contract price was $25,456.

JACKSON, MISS.—The bids received on Jan. 5 by the Hinds County Board of Supervisors for the construction of public roads, were rejected. New bids will be asked some time in February.

NEW ALBANY, MISS.—We are officially advised that surveys will immediately be commenced for the construction of good roads in Union County. L. W. Duffee is City Engr. B. A. Webb is Highway Engr., Union County Road Comn.

LOUISVILLE, KY.—We are officially advised that plans are being prepared for paving with asphalt 20,000 sq. yds. of the Bardstown Road, from Duker Ave. to Douglass Boulevard. Estimated cost, $40,000. D. R. Lyman is Ch. Engr.

CLEVELAND, OHIO.—Bids will be received by the County Commissioners, J. T. Goldenbogen, Clk., until Feb. 8, for the construction of the Union Road, and until Feb. 15 for the construction of the Broad View Road. Bids have already been received for the Gardner Road, and the contract will be awarded some time in February.

CINCINNATI, OHIO.—Bids will be received by the Board of County Commissioners, Fred Dreihs, Clk., until noon, Jan. 20, for the extension and improvement of Hillside Ave., from Anderson Ferry eastwardly, for a distance of 370 ft.

Bids will also be received by the Board of County Commissioners until noon, Feb. 3, for building culverts on the Kirby Road, in Millcreek Township. Plans and specifications are on file at the office of the Board of County Commissioners.

COLUMBUS, OHIO.—Bids were received by the Board of Public Service on Jan. 6 for paving Mound St., as follows: A. G. Pugh, of Columbus, Portsmouth block with cement filler, $17,840; Nelsonville block with cement filler, $17,869; Athens or Peebles block with cement filler, $17,898; Townsend block with cement filler, $18,026; Portsmouth block with tar filler, $18,085; Nelsonville block with tar filler, $18,114; Athens or Peebles block with tar filler, $18,146; Metropolitan block with cement filler, $18,185; Townsend block with tar filler, $18,362; Metropolitan block with tar filler, $18,430; Portsmouth block with asphalt filler, $18,-752; Nelsonville block with asphalt filler, $18,781; Athens or Peebles block with asphalt filler, $18,811; Townsend block with asphalt filler, $18,929; Metropolitan block with asphalt filler, $19,097. J. C. Beasley, of Columbus, Athens block with tar cement filler, $18,509; Nelsonville, Peebles or Trimble block with tar cement filler, $18,568; Athens block with asphalt filler, $19,098; Nelsonville, Peebles or Trible block with asphalt filler, $19,159. W. M. Graham, of Columbus, Athens or Trible block with tar cement filler, $19,489; Trimble block with asphalt filler, $19,929; Athens block with asphalt filler, $20,079; Portsmouth block with asphalt filler, $21,405. Geigle, Garnes & Co., Columbus, Athens block with tar cement filler, $19,703; Portsmouth block with tar cement filler, $20,125; Athens block with asphalt filler, $21,010. G. W. Patterson & Son, Columbus, Athens, Nelsonville or Townsend block with asphalt filler, $20,611; Athens, Nelsonville or Townsend block with cement filler, $19,785; Athens, Nelsonville or Townsend block with tar filler, $19,903. W. H. Lutchenberg, Columbus, Athens block with tar filler, $21,820; Athens block with cement filler, $21,879; Trible block with tar filler, $21,878; Trimble block with cement filler, $21,938; Athens block with asphalt filler, $22,705; Trimble block with asphalt filled, $22,704. D. E. Sullivan & Son of Columbus, Wasson block with tar cement filler, $23,210; Athens block with tar cement filler, $23,446; Wasson block with asphalt filler, $24,095; Athens block with asphalt filler, $24,331. The engineer's estimate of the work was $20,523. Henry Maetzel is City Engr.

AKRON, OHIO.—The following bids were the lowest received by the County Commissioners, for three of the five sections of the Akron-Hudson Road: Section 1, E. McShaffrey & Son, of Akron, at $38,683; Section 3, Wildes & Davidson, of Akron, at $63,264; Section 5, Paul & Henry, of Barberton, at $106,652. The road is to be 14 ft. wide.

WAPAKONETA, OHIO.—The Council has decided to pave the entire length of Mechanic St. this year, about a mile. Brick or asphalt block will be used. Estimated cost, $40,000.

AKRON, OHIO.—The two lowest bidders on the Bartges St. improvement were: McAlonan Bros., $17,963; McShaffery & Son, $18,188. The paving contract includes the improvement of Bartges St., from St. Clair St. to Mallison Ave., and the construction of a sewer from Rhodes Ave. to Mallison Ave.

CLEVELAND, OHIO.—Bids will be received until 11 a. m., Feb. 8, for grading, draining and improving Union Road, from the limits of the city of Cleveland to the intersection of Union Road with Kinsman Road in Newburg Township. John F. Goldenbogen is City Clk.

COLUMBUS, OHIO.—The following bids were received on Jan. 14 for grading and macadamizing one mile of road in Goshen Township: E. P. Patrick, of Mechanicsburg, $7,700; HARVEY B. STEPHENS, of Mechanicsburg, $7,363 (awarded contract); Wilson Engineering & Construction Co., of Xenia, $7,647.

HAMILTON, OHIO.—The city has awarded a contract to the ANDREWS ASPHALT PAVING CO., of Hamilton, for paving East Ave., South B St. and North Sixth St., at $1.90 per sq. yd.

HAMILTON, OHIO.—The City will soon ask bids for macadamizing two miles of the Venice Road. James C. Wonders is State Highway Comr.

ST. CLAIRSVILLE, OHIO.—The contract for constructing a mile of pike near Woodsfield has been awarded to W. H. MOORE, of Moore & Strahl, at $9,300.

WOOSTER, OHIO.—The cost of paving Quimby Ave. has been estimated at from $25,000 to $30,000.

MARTINSVILLE, IND.—Bids will be received until Feb. 7, by J. S. Whitaker, County Audr., for road construction in Adams Township, Morgan County.

RUSHVILLE, IND.—Official advices are to the effect that no contract was awarded on Jan. 11 for the construction of a macadamized road in Anderson Township. New bids will soon be received. Jesse M. Stone is County Audr.

FORT WAYNE, IND.—The Commissioners of Allen County will receive bids until Feb. 2, for the construction of a macadam road in Maumi Township. Calvin H. Brown is County Audr.

FRANKFORT, IND.—The Commissioners of Clinton and Tippecanoe Counties have granted a petition for the construction of a gravel road on the county line, 15,840 ft. in length. Plans and specifications are on file with John P. Foresman, County Audr., Clinton County.

INDIANAPOLIS, IND.—The Board of Public Works has ordered plans on which to ask for bids for the resurfacing of North Capital Ave.

LOGANSPORT, IND.—The Commissioners of Cass County will receive bids until 10 a. m., Feb. 7, for the construction of a gravel road, known as the Sheetz Road, in Jefferson Township. John E. Wallace is County Audr.

MARION, IND.—The Commissioners of Grant County will receive bids until 2 p. m., Feb. 7, for the construction of a macadamized road in Fairmont Township, known as the Calvin Scott Road. A. Y. Stout is County Audr.

MOUNT VERNON, IND.—The Board of Commissioners will receive bids for the construction of two miles of gravel road in Robb Township until 2 p. m., Feb. 8. Paul Maier is County Audr.

SHELBYVILLE, IND.—Bids will soon be asked by the Commissioners of Shelby County and the Commissioners of Johnson County, for the construction of a gravel road on the line between Jackson and Blue River Townships.

TIPTON, IND.—Bids will be received until 10 a. m., Feb. 6, by the Commissioners of Tipton County for the construction of six gravel roads. J. H. Tranburger is County Audr.

VERSAILLES, IND.—Bids will soon be received by the Commissioners of Ripley County for the construction of 14,622 lin. ft. of macadam road in Johnson Township, known as the William Lingle Road. Nicholas Voltz is County Audr.

WINAMAC, IND.—The Commissioners of Pulaski County will receive bids until noon, Feb. 7, for the construction of the following gravel roads in Beaver Township: Road No. 1, 6½ miles in length; Road No. 2, 2½ miles in length; the F. B. Colner Road, on the line between Indian Creek and Beaver Townships. W. E. Munchenburg is County Audr.

ROCK ISLAND, ILL.—We are officially advised that the contract for paving 38th St. with brick has been awarded to the NORTHWESTERN CONSTRUCTION CO., Davenport, Iowa, at $51,000. The item prices were: Excavation, 30 cts.; paving, $1.65; concrete curb and gutter, 60 cts.; stone curb, 50 cts.

DULUTH, MINN.—Plans are being prepared by C. J. Morisset, Highway Comr., for widening and macadamizing the 18th St. road, a distance of about twelve miles. This work is provided for by the $53,000 levied by the County Board.

RICHMOND, TEX.—The city is considering the improvement of several roads, including the graveling and shelling of the public road from Richmond to the Harris County line, below Missouri City. Bonds for $150,000 have been sold.

PUYALLUP, WASH.—The city has awarded the contract for the improvement of Main and Meeker Sts. to the WARREN CONSTRUCTION CO. at $8,062.

SEATTLE, WASH.—The contract for a state road four miles in length east of Tonasket in Okanogan County, has been awarded to WOOD & RUBERT, at about $20,000.

TACOMA, WASH.—The KEASAL CONSTRUCTION CO. has been awarded the contract for the improvement of Pacific Ave., from Hood St. to 21st St.

The City Council has awarded to the WARREN CONSTRUCTION CO. the contract for street paving in Districts 27 and 28, at $23,-448.

SPOKANE, WASH.—Bids were received by the city for grading, curbing and paving with granite concrete the following streets. Bernard St., from Pacific Ave. to Eighth Ave., R. S. Blome & Co., $41,200; James H. Fife, $37,500; Boynton, Church & McCoy, $40,500; Engineer's estimate, $36,900. Boone Ave., from Pearl St. to Division St., R. S. Blome

& Co., $12,600; James H. Fife, $11,744; Boynton, Church & McCoy, $13,600; Engineer's estimate, $11,600. J. C. Ralston is City Engr.

PORTLAND, ORE.—The City Council has passed resolutions providing for the improvement of portions of the following streets at the named estimated costs: Vista Ave., with Hassam pavement, at $24,546; Myrtle St., Hassam pavement, at $1,675; Weidler St., Warren's bitulithic pavement, at $22,335. J. W. Morris is City Engr.

PORTLAND, ORE.—Bids will be received until Feb. 23 for paving thirteen blocks of Jersey St.

INDEPENDENCE, ORE.—The City Council is considering a plan to pave Front, Monmouth and C Sts.

LODI, CAL.—All streets in the business section of the city will be paved with asphalt.

LOS ANGELES, CAL.—Bids have been received by the city as follows: For improving Frances Ave., David Joy, 10 cts. per sq. ft. for sidewalk. For improving Waterloo St., H. H. Curtis, 15 cts. per sq. ft. for regrading, regraveling and reoiling, 15 cts. per lin. ft. for grading and graveling, 34 cts. per lin. ft. for cement curb, 14 cts. per lin. ft. for cement gutter, 30 cts. per lin. ft. for vitrified gutter, $100 for storm sewers and appurtenances complete. David Joy, 14 cts. per sq. ft. macadam paving, 12 cts. per sq. ft. for regrading, regraveling and reoiling, no bid for grading and graveling, 33 cts. per lin. ft. cement curb, 14 cts. per lin. ft. cement gutter, 30 cts. per lin. ft. for vitrified gutter, $360 for storm stewers and appurtenances completed. O. Richmone, 20 cts. per sq. ft. macadam paving, 10 cts. per sq. ft. for regrading, regravelin and reoiling, no bid for grading and graveling, 35 cts. per lin. ft. for cement curb, 16 cts. per lin. ft. for cement gutter, 35 cts. per lin. ft. for vitrified gutter, $1,250 for storm sewers and appurtenances complete; Withers & Crites, 12 cts. per sq. ft. for macadam paving, 9 cts. per sq. ft. for regrading, regraveling and reoiling, no bid for grading and graveling, 35 cts. per lin. ft. cement curb, 15 cts. per lin. ft. cement gutter, 30 cts. per lin. ft. for vitrified gutter, $239 for storm sewers and appurtenances complete. For improving Normandie Ave., E. F. Ford, 19 cts. per sq. ft. for asphalt paving, 25 cts. per sq. ft. for asphalt repaving, 30 cts. per sq. ft. for brick paving, 32 cts. per lin. ft. cement curb, 30 cts. per sq. ft. vitrified block gutter; Barber Asphalt Paving Co., 18.2 cts., 18.2 cts., no bid, 30 cts., $273; Fairchild-Gilmore-Wilton Co., 17.8 cts., 17.8 cts., no bid., 30 cts., 28 cts.

SOUTH PASADENA, CAL.—Plans have been ordered for about one mile of sheet asphalt pavement on 4-in. concrete base, on Mission St. and Pasadena Ave. The streets average about 40 ft. wide. It will be several months before plans are ready. Benjamin F. Dupuy is City Engr.

LOS ANGELES, CAL.—See item under Miscellaneous Contracts: "Gravel and Sand."

SOUTH PASADENA, CAL.—The City Board of Trustees has awarded the contract for improving Oak St., with petrolithic paving and constructing cement curbs and gutters to M. L. CURTIS.

SAN FRANCISCO, CAL.—Marsden Manson, City Engr., has been ordered to prepare plans for grading Sansome St. The grade will be lowered 4 ft. at Union St., 7 ft. at Green St., 10 ft. at Vallejo St., 22 ft. at Broadway and 4 ft. at Pacific St. A bridge at Broadway will carry its roadway over the cut.

SANTA ANA, CAL.—The Board of Trustees has ordered the construction of an asphalt concrete pavement on West Fourth St. C. R. Ward is City Clk.

SIERRA MADRE, CAL.—The contract for improving Windsor Lane has been awarded to G. H. CURTIS, of Los Angeles, at the following prices: $1.20 per lin. ft. grading and oiling; 30 cts. per lin. ft. cement curb; 15 cts. per sq. ft. cement gutter; 15 cts. per sq. ft. cement swales.

LOS ANGELES, CAL.—The City Council has ordered that portions of Orme Ave., Venice Ave., East Seventh St., and Stevenson Ave., be graded and paved with macadam paving, and that cement gutters, vitrified gutters and cement curbs be constructed thereon. Homer Hamlin is City Engr.

LOS ANGELES, CAL.—The following bids have been received by the County Board of Supervisors: For improving Road District No. 1, near Bairdstown, H. V. GENTRY, (awarded contract), grading and graveling, $12,516, cement curb 25 cts. per lin. ft., cement gutter 13½ cts. per sq. ft., cement sidewalk 9¼ cts. per sq. ft. A. W. Bessemyer, grading and graveling $24,991, cement curb 30 cts. per lin. ft. cement gutter 19 cts. per sq. ft., cement sidewalk 11 cts. per sq. ft. The amount of work to be done is as follows: Grading and excavation, 43,230 cu. yds.; cement curb, 8,896 lin. ft.; cement walks, 45,435 sq. ft.; cement gutters, 22,290 sq. ft.; cross gutters, 1,900 sq. ft.; oil road, 18,052 sq. yds. The estimated cost was $22,000. Horace B. Ferris is Clk. Bd. of Pub. Wks.

LOS ANGELES, CAL.—The Board of Public Works has received the following bids for improving Marmion Way: H. H. Curtis, $1 per lin. ft. grading and graveling, 33 cts. per lin. ft. cement curb, 14 cts. per sq. ft. cement gutter, 28 cts. per sq. ft. vitrified block gutter, $300 storm drains and appurtenances. George R. Curtis, 90 cts., 30 cts., 14 cts., 30 cts., $350. Withers & Crites, $1.15, 33 cts., 13 cts., 30 cts., $300, storm drain complete at Mt. Washington Drive; $263, storm drain at Ave. 45th. David Joy, $1.20, 33 cts., 14 cts., 30 cts., $302 at Mt. Washington Drive, $180 storm drain at Ave. 45th. H. O. Richwine, $1.45, 30 cts., 14 cts., 30 cts., $350. W. B. McCray, $1.35, 35 cts., 15 cts. per sq. ft. cobble gutter, 15 cts., 35 cts., $2.75 per lin. ft. for culverts and wings complete.

LOS ANGELES, CAL.—The Board of Public Works has awarded the following contracts: For improving Blanchard St., to H. H. CURTIS at $1.69 per lin. ft. for grading and graveling, 13 cts. per sq. ft. for cement gutter. For improving Center St., to B. F. FORD, at 26 cts. per sq. ft. for brick for paving, 30 cts. per lin. ft. for cement curb. The aggregate amount was $8,379.

LOS ANGELES, CAL.—The contract for constructing 28,000 sq. ft. of cement sidewalks and 8,000 lin. ft. of cement curbing in the Lawndale addition tract has been awarded to PAONESSA & TAYLOR.

The Board of Public Works has awarded a contract to the FAIRCHILD-GILMORE-WILTON CO., of Los Angeles, for improving Normandie Ave., from Washington to Jefferson Sts., at 17.8 cts. per sq. ft. for asphalt paving, 17.8 cts. per sq. ft. for regrading and repaving, 30 cts. per lin. ft. for cement curb, 28 cts. per sq. ft. for vitrified block gutter. Aggregate amount, $45,757.

MONROVIA, CAL.—The Board of Trustees has ordered the grading and oiling of Walnut Ave., and the construction of cement culverts thereon; also the construction of a 5-ft. cement sidewalk on California Ave., grading and paving Melrose Ave., and the construction of cement curbs and gutters thereon. C. H. Reed, Jr., is City Clk.

REDONDO, CAL.—Plans, profiles and specifications have been adopted by the City Trustees for improving Vincent and Emerald Sts.

UPLAND, CAL.—The City Trustees have ordered the City Engineer to prepare plans and specifications for macadamizing A St., and for paving the entire length of Tenth St. Bids will be asked as soon as details are completed.

TORONTO, ONT.—Plans for a system of experimental roads between Bridgeburg and Niagara-on-the-Lake are being prepared by W. A. McLean, Provincial Good Roads and Highways Engr. The project will be paid for by the Niagara Falls Park Commission, and the construction of the roads will be commenced early in the spring, under the direction of the Provincial Engineer.

MEXICO CITY, MEX.—The Department of Fomento of the State of Guerrero has appropriated $350,000 for the building of a wagon road to the Port of Acapulco from the capital of the state, and for maintaining the road recently opened from Iguala to Chilpancingo.

MANUFACTURING PLANTS.

(*Denotes that this work is advertised in Engineering News.)

BOSTON, MASS.—The George E. Keith Co., of Brockton, will build a shoe factory in South Boston. It will be of brick and six stories, the main section being 125 ft. long, and two wings 100 ft. long. The capacity of the plant will be 4,000 pairs daily.

We are officially advised that the contract for constructing a repair shop for the Fire Department was awarded to the JOHN F. GRIFFIN CO., 95 Milk St., Boston, on Dec. 14. It will be four stories high, 70 × 100 ft., of brick and reinforced concrete. Cost, $94,988. Bids were received on Dec. 14 and noted on Dec. 22.

FALL RIVER, MASS.—The Collins-Plass Co. plans to construct a brick building, 120 × 60 ft., at the northwest corner of Broadway and William St. The foundation is being laid.

LOWELL, MASS.—It was erroneously stated last week that the Boston & Maine R. R. Co. plans to erect a car building and repair plant here.

SALEM, MASS.—George C. Vaughn has bought of the Daniel C. Yarney estate property fronting on Bridge St., Salem, adjoining the Vaughn tannery. The land in the premises has an area of 39,000 sq. ft., with buildings, which will be removed. The new owner will build a leather factory.

SPRINGFIELD, MASS.—Plans have been prepared by H. L. Sprague, M. E., 310 Main St., for the construction of a plant on Warwick Ave., along the Boston & Albany R. R. tracks, to be occupied by the W. J. Hyland Mfg. Co. and the National Biscuit Co. It will be of brick construction, 40 × 137 ft. Estimated cost, $13,000. The contract will soon be awarded.

WORCESTER, MASS.—Plans have been completed and estimates are being received for the construction of a 4-story thread factory for the Wachusett Thread Co., of which Peter Wood, 116 Gold St., is Pres. It will be of brick, with a concrete foundation, granite trimmings, etc., and 225 × 135 ft. The Fuller & Delano Co., Archs., 452 Main St., prepared the plans. Estimated cost, $100,000.

NEW BEDFORD, MASS.—A cotton mill is contemplated here by Charles S. Luce, it is stated.

STAMFORD, CONN.—Herbert C. Reed is planning the erection of a plant here to manufacture dyewoods, chemicals and extracts, according to reports.

WATERBURY, CONN.—Bids will be received by Griggs & Hunt, Archs., 51 Leavenworth St., this city, until noon, Jan. 23, for an addition to the plant of the Steele & Johnson Mfg. Co. The plans call for a brick building, 40 × 105 ft., four stories high, of heavy mill construction, to cost about $25,000.

The Waterbury Farrel Foundry & Machine Co. have recently awarded the contract for a 1-story and gallery addition to their present machine shop to GEORGE R. BLODGET, of this city. The BERLIN CONSTRUCTION CO., of Berlin, Conn., has the sub-contract for the structural steel work and DWIGHT WOOSTER for the mason work. The building will be 125 × 70 ft., of heavy mill construction and will cost about $15,000. Griggs & Hunt, 51 Leavenworth St., are the Archs.

BUFFALO, N. Y.—Additions and improvements to cost $10,000 will be made to the store and factory building at 1227 Main St.,

OSWEGO, N. Y.—Plans are being prepared by John H. Seeber, Arch., Arcade Bldg., for a 3-story brick knitting factory, 60 × 60 ft., and a 1-story power house, 25 × 60 ft., at Syracuse Ave. and East Fourth St. James A. Shufelt, 157 East Third St., is the owner. Cost, $25,000.

BUFFALO, N. Y.—The Flectroptic Products Co., a new corporation, to make radiators, will build a fireproof factory, 50 × 65 feet, on 2-acre site, at Elmwood and Hertel Aves., for making radiators.

NEW YORK, N. Y.—Plans are being prepared by Maynicke & Franke, Archs., 25 East 26th St., for the construction of a 9-story factory and warehouse at the northwest corner of Hudson and Spring Sts. The owner is Henry Heide, candy manufacturer, 84 Vandam St.

We are officially advised that bids will be received about Feb. 1, by Frederick A. Waldon, Arch. and Engr., 37 Wall St., New York, for the construction of a 5-story chandelier factory, 100 × 100 ft., for Shapiro & Aronson, 24 Morton St., Brooklyn. It will be located at Glenmore and Snediker Aves., Brooklyn. Estimated cost, $100,000.

UTICA, N. Y.—Plans have been completed and estimates are being received by T. H. Williams, Arch., Shubert Block, for the construction of a 1-story factory, 160 × 160 ft., for the Loritz Tenscher Co. Estimated cost, $60,000.

NEWARK, N. J.—We are officially advised that the contract to erect a 4-story addition to the manufacturing plant of the Westinghouse Electric Mfg. Co., 165 Broadway, New York, located at Orange Pl. and Lackawanna Ave., Newark, has been awarded to the HEDDEN CONSTRUCTION CO., 1 Madison Ave., New York. Westinghouse, Church, Kerr & Co., 10 Bridge St., New York, are the Engrs.

CANNONSBURG, PA.—Plans and specifications have been completed for the construction of a structure, 250 ft. long, for the Standard Steel Box Co. This is the first building to be erected on a site consisting of 3½ acres.

CARBONDALE, PA.—The Delaware & Hudson Co. plans to construct shops here, it is stated, the estimated cost of which will be $250,000. George H. Burgess, of Albany, N. Y., is Ch. Engr.

LITITZ, PA.—The American Starch Co., of Lititz, will have plans prepared at once by its own engineers for the reconstruction of the manufacturing plant recently destroyed by fire. The proposed building will be two stories in height, 50 × 118 ft.

PITTSBURG, PA.—We are officially advised that the Linde Air Products Co., 155 Chandler St., Buffalo, N. Y., has not planned to construct a plant near Pittsburg, as erroneously stated on Jan. 5.

Plans have been completed by W. A. Thomas, Arch., Park Bldg., for the erection of a 4-story brick factory on Central Ave. for the Penn Cigar Co. Cost, $20,000.

BALTIMORE, MD.—The contract for the foundations, including Raymond concrete piles, for the box factory to be built for Becker Bros., Lexington and Frederick Sts., Baltimore, has been awarded to the RAYMOND CONCRETE PILE CO., 90 West St., New York, and of Chicago. Theodore Wells Pietsch, American Bldg., is Arch. Noted on Dec. 29.

The contract to erect a bakery at 310 North Gay St., for the City Baking Co., Equitable Bldg., has been awarded to JOHN F. KUNKEL, 413 King St., Baltimore. The plans were prepared by John Freund, Jr., 210 East Lexington St.

BALTIMORE, MD.—The general contract for erecting an 8-story factory at Pratt St. and Falls Ave., Baltimore, for the Coca Cola Co., of Atlanta, Ga., has been awarded to the PIEDMONT CONSTRUCTION CO., of Atlanta. Carey Mattien, 3 North Calvert St., Baltimore, is local representative. William Tuft, of Atlanta, is Arch. Estimated cost, $200,000.

The International Non-Refillable Bottle Co. has been incorporated with $100,000 capital stock by Frank P. Knight, Kate Ave., Reisterstown, Md.; Charles N. Boulden, 19 East Saratoga St., Baltimore, and George G. Steigler, Wilmington, Del., and plans to establish a plant.

BALTIMORE, MD.—The Baltimore Gas Appliance & Mfg. Co. is being organized with a capital stock of $300,000. The incorporators have leased a plant at Bayard and Wicomico Sts., and will remodel it, which, when complete, will contain 200,000 sq. ft. of floor space. Machinery will be installed. H. W. Hunter, St. Paul Apartment House, Baltimore, is Pres. and Gen. Mgr., and Martin W. Longfellow, of the Estate Stove Co., of Hamilton, Ohio, Gen. Supt.

CUMBERLAND, MD.—The German Brewing Co. will make improvements to its plant, including a storage room with a capacity for 2,000 bbls., walls and a roof covered with a 2-in. cork composition. A bottling apparatus and three pasteurizers will be installed.

FREDERICK, MD.—The Morris Iron Co. has been incorporated with $175,000 capital stock by John Mitchell, Jr., 1000 Pennsylvania Ave., N. W., Washington, D. C.; Elmer P. Morris, of East Orange, N. J., and William T. S. Diven, of Frederick; which consolidates the Frederick Iron Works and Elmer P. Morris Co. and will enlarge the Frederick plant.

HAGERSTOWN, MD.—The Hagerstown Combination Heater Co. has been organized with Harry E. Baker as Pres.; Charles S. Lane, Jr., Treas.; R. S. Stevenson, Secy., and will establish a plant to manufacture combination heaters.

The Hagerstown Leggin Co. is being incorporated with $30,000 capital stock. Lewis T. Byron is Pres.; Harvey H. Heyser, Treas., both of Hagerstown; W. J. Campbell, Vice-Pres., of Dayton, Va., and Robert L. Campbell, Secy. A plant to manufacture leggins will be built.

RICHMOND, VA.—The R. A. Patterson Tobacco Co. has closed a deal by which it comes into possession of about 36 acres of land in South Richmond, known as the Spring Hill property, at $1,00[illegible] acre. It is the purpose of the company [illegible] rect a tobacco factory at a cost of $1,0[illegible] or more when completed. The factor[illegible] offices, which will be under the same [illegible] will cover 400 sq. ft. of ground, and [illegible] will be ample warehouses. The res[illegible] the tract will be taken up with cotta[illegible] which will be rented to old employees.

NORFOLK, VA.—A glass f[illegible] is to be erected near here, according [illegible] ports, by James S. Groves. A site, co[illegible] of five acres of land, has been purc[illegible] for this purpose.

FAIRFAX, VA.—The Old D[illegible] on Lime Co. has been organized with [illegible] capital stock, with T. M. Hamilton, P[illegible] B. F. A. Meyers, Vice-Pres., both of Fa[illegible] and A. G. Coumbe, Secy., of Vienna, [illegible] to install kilns and machinery. T. M. [illegible] milton is Engr.-in-Charge.

RICHMOND, VA.—The Gra[illegible] Railway Signal Co. has been incorp[illegible] with $500,000 capital stock wi[illegible] W. H. Woody as Pres.; C. G. Burto[illegible] e-Pres., and William H. Campbell, Sec[illegible] eas., for the manufacture of automatic [illegible] rical or mechanical railway signals.

PARKERSBURG, W. VA.—Th[illegible] tract to erect a creamery for the Imp[illegible] Confectionery Co. has been awarded to [illegible] A. MILLER, of Parkersburg.

GREENSBORO, N. C.—C. W. [illegible] dges, of Greensboro, is planning the esta[illegible] ment of a mill to knit hosiery, and is u[illegible] stood to be now negotiating for the nec[illegible] ry machinery.

CHARLOTTE, N. C.—It is ex[illegible] ted that the cotton yarn mill of the Ro[illegible] rta Mfg. Co., of Concord, recently destroy[illegible] by fire, and valued at about $120,000, will be promptly reconstructed. This plant contained about 4,060 ring spindles, with accompanying equipment. It was formerly property of the Dowell Manufacturing Company, which company the Roberta concern succeeded in August. John C. Rankin, of Lowell, is Pres.

ELIZABETH CITY, N. C.—A knitting mill is contemplated here by J. T. Lewis, of Washington, N. C., and others. The Chamber of Commerce is negotiating for a site.

ATLANTA, GA.—The Schoen-Porter Fertilizer Co. plans to rebuild the plant recently destroyed by fire, at a loss of $120,000. The new plant will have a capacity of from 15,000 to 20,000 tons.

WARRENTON, GA.—A company is being organized here by C. R. Fitzpatrick, C. W. Gheesling, W. E. English and others for the purpose of establishing a fertilizer factory, with a season capacity of from 10,000 to 12,000 tons. Construction work will soon start. The capital stock will be $25,000.

DAYTONA, FLA.—W. V. Carter will establish a rice hulling and grist mill and factory to manufacture brushes and fibre from palmetto leaves.

CARRABELLE, FLA.—The Southern Canning Co., has been incorporated and plans to construct a canning factory. Its officers are: C. G. Parlin, Pres.; Lynn Kilbourn, Vice-Pres.; Lee Pickett, Secy. The Board of Directors consists of O. M. White, R. J. Camp and others. A Matson, of Citronelle, Ala., will be Mgr.

NEW ORLEANS, LA.—A company is being organized by George D. Luce, for the purpose of establishing a plant to manufacture sugar cane.

NEW ORLEANS, LA.—The National Aeroplane Mfg. Co., of Chicago, Ill., plans to establish a plant here to manufacture aeroplanes, it is stated.

COLUMBUS, OHIO.—According to reports, plans are being prepared for the construction of "arriving" and "departing" yards and an engine roundhouse, south of Parsons Ave., for the Hocking Valley Ry. F. B. Sheldon, of Columbus, is Ch. Engr. Estimated cost, $1,000,000.

BARBERTON, OHIO.—At a recent meeting of the stockholders of the Portage Rubber Co., it was decided to increase the capital from $10,000 to $100,000. Contracts will soon be awarded for doubling the capacity of the reclaiming plant at Barberton. W. W. Wildman will have charge of the plant.

CINCINNATI, OHIO.—It is stated that the factory at 622 Main St., owned by B. S. Cunningham, Fourth and Main Sts., which was recently destroyed by fire, will be rebuilt. Cost, $75,000.

The factory on Broadway, which was destroyed by fire recently, is to be reconstructed. The A. J. Nurre Mfg. Co., 815 Broadway, is the owner. Cost, $50,000.

SANDUSKY, OHIO.—S. C. Kelly, William Allendorf, John B. Swift, Paul H. Sprow and George C. Beis are organizing a company to be known as the Kelly Gypsum Co. The gypsum mines will be developed and a plant, to cost $75,000, is to be erected. The capital stock is $150,000.

SOUTH BEND, IND.—A building permit has been taken out by the Rubber Regenerating Co., for the erection of an addition to its factory. Later on, plans will be completed for the erection of a warehouse, three stories high.

The Federal Biscuit Co., is planning to remodel, enlarge and otherwise improve its plant in this city. A confectionary plant will be added.

COLDWATER, MICH.—It is reported that the Ball Planing Mill Co., George Ball, Pres., Chicago and Clay Sts., will remove its plant from the present location to [illegible] site on Fremont St.

MENOMINEE, MICH.—A 5-story [illegible] tock house will be added to the plant of th[illegible] Leison & Henes brewery, at a cost of $[illegible] 000. The company will also replace the old [illegible] ooling process with an ammonia and salt process, at a cost of $12,000.

DETROIT, MICH.—Varney, Winter & [illegible] arney, Equity Bldg., have let the foll[illegible] ing contracts for the 3-story plants, 220 [illegible] 90 ft., and 235 × 86 ft., for the Briggs [illegible] fg. Co., Leuchner Ave. and Grand Trunk R. R.:

Masonry, to F. N. COOPER, 203 Grandy Ave.; carpentry, to THEO. MERCIER, 233 Beecher Ave. Cost of plant, $40,000.

R. E. Raseman, Penobscot Bldg., has awarded the following contracts for the 1-story steel mill, 65 x 122 ft., for the Swedish Crucible Steel Co., T. E. Brewster, Secy., Rowland Bldg.: Masonry, to I. E. BOOMER, 302 West Warren Ave.; carpentry, to McENHILL BROS., 192 15th St.; structural iron work, to the DONOVAN WIRE & IRON WORKS, of Toledo, Ohio; composition roofing, to [illegible]DRITH & CANDLER, 74 Brush St.; steam heating and plumbing, to WHITE & FISHER, 205 Michigan Ave.; all of Detroit unless otherwise noted.

Louis [illegible]ble, 109 Randolph St., Chicago, Ill., and R. E. Raseman, 1302 Penobscot Bldg., Detroit, have awarded the following contracts for the 4-story and basement brewery and storage house addition, 42 x 108 ft., for the Goebel Brewing Co., F. W. Brede, Pres., 351 Rivard St., Detroit.: Masonry, to THOMAS SCHEICHT & SON, 12 Jay St.; carpentry, to CONRAD KELLER, 841 [illegible]eld St., East. Cost, $25,000.

PONTIAC, MICH.—The Flanders Mfg. Co., Walter E. Flanders, Pres., Pontiac, has filed articles of incorporation with capital of $2,250,000. Several plants will be merged including the Grant & Woods Mfg. Co., of Chelsea, Mich.; the Pontiac Motor Cycle Co.; the Pontiac Drop Forge Co., and the Vulcan Gear Co., all of Pontiac. The concern will manufacture motor cycles and automobile parts. The motor cycle will be known as the Flanders Bi-Mobile.

CHICAGO, ILL.—Plans are in course of preparation for the construction of a 3-story factory by S. N. Crowen, 108 La Salle St. Edward F. Hamm, 126 Market St., is the owner. Estimated cost, $220,000.

GRANITE CITY, ILL.—The St. Louis Syrup & Preserving Co., Collins and Dickson Sts., St. Louis, Mo., is planning the erection of a factory at Granite City, at an estimated cost of $[illegible],000. The officers of the company are: M. S. Clymer, Pres.; C. H. Lorenz, Treas., and R. R. Bang, Secy.

HARVEY, ILL.—Grossman & Proskauer, Engrs., 283 Dearborn St., Chicago, are receiving bids for the construction of an addition to the plant at Harvey, owned by the Forsythe Bros. Co., 23 Institute Pl., Chicago.

CLINTONVILLE, WIS.—Plans are being prepared and bids will be received about Feb. 15 for the erection of an automobile factory and power-house for the Four Wheel Drive Auto Co., of Clintonville. It will be one story high, 60 x 120 ft. and 30 x 40 ft. W. W. DeLong, of Appleton, is Arch.

CLINTON, IOWA.—The American Wire Fabrics Co. has been incorporated as successors to the American Wire Cloth Co., and plans to double the capacity of the present plant formerly owned by the latter company.

DES MOINES, IOWA.—A sash and door factory is to be established here by the Farley & Loetscher Co., of Dubuque. A site has been purchased, and as soon as it is cleared and plans prepared construction will begin.

DUBUQUE, IOWA.—Through an arrangement made with the Dubuque Industrial Corporation, recently formed here, a branch factory of the Brunswick-Balke-Collendar Co. will be erected. The company agrees to erect a $200,000 plant and employ 500 men.

MINNEAPOLIS, MINN.—The plant of the Minneapolis General Electric Co., recently destroyed by fire and explosion, is to be rebuilt at an approximate cost of $1,000,000.

KANSAS CITY, MO.—Plans have been completed, we are officially advised, and the contract will be awarded some time in the spring, for the construction of a 3-story plant for the Consumers Bread Co., care of A. C. Warnecke, Orear-Leslie Bldg., Kansas City. It will be located at 14th St. and Chestnut Ave. C. B. Comstock, 103 Park Ave., New York, is the Arch.

ST. LOUIS, MO.—A factory to be constructed of brick and stone, is contemplated by C. Cunliff, Navarre Bldg. Estimated cost, $20,000.

LITTLE ROCK, ARK.—The Continental Wax Co. has been incorporated with a capital stock of $500,000, for the purpose of erecting a factory to manufacture wax. A plant is also contemplated at Texas City, Tex. S. C. Bossinger is Pres.; Dr. O. K. Judd, Vice-Pres., and F. E. Sutton, Secy.-Treas.

PRAIRIE VIEW, TEX.—The Prairie View Development Co., T. J. Lewis, Pres., main offices at Houston, has under consideration plans for the erection of a cotton duck mill at Prairie View, in Waller County, a new town which the company is developing.

VICTORIA, TEX.—The Southwestern Cement Brick & Tile Co., organized with $6,000 capital stock by Theodore Buhler, James F. Welder, John Stoffels and others, plans to establish a plant to manufacture fireproof brick by a new process out of river sand. It will have a daily capacity of 20,000 to 30,000 bricks.

WACO, TEX.—The Factory and Home Industry Committee, Walton Taylor, Chn., of the Young Men's Business League of Waco, is formulating plans for the organization of a corporation to build a cotton factory in this city, or to induce experienced cotton manufacturers to locate a plant here.

SHAWNEE, OKLA.—The Shawnee Development Co., of Shawnee, and W. B. Smith Whaley, of Providence, R. I., plan the organization of a company to build a mill of 10,000 spindles and 300 looms at Shawnee. The capital stock will be $250,000.

ANACORTES, WASH.—W. S. Brown and W. Robertson, both of Vancouver, B. C., contemplate the erection of a tile factory in Anacortes, it is stated.

LOS ANGELES, CAL.—The Heard Mfg. Co. has been incorporated here with a capital stock of $50,000 and will absorb the Heard Sheet Metal Works, of which T. B. Heard is Pres. The new company has purchased a site on South Main St. and will erect a 3-story plant, 50 x 165 ft., to cost $20,000. It will be used for the manufacture of automobile wind shields and other accessories.

WINDSOR, ONT.—Arrangements have been completed whereby the Moloney Electric Co., Seventh and Hickory Sts., St. Louis, Mo., will establish a Canadian branch here employing 50 persons at the start.

PORT ARTHUR, ONT.—The McKensie-Mann interests are considering the construction of a foundry on their property near the blast furnaces of the Atikoken Iron Co.

MIDLAND, ONT.—The Campbell Milling Co. recently announced that it would erect a second flour mill at Midland. Building operations will be commenced in the spring and the plant to be installed will have a capacity of 1,500 bbls. The company's Toronto mill is capable of handling 1,000 bbls. daily.

VANCOUVER, B. C.—The Western Steel Co. has purchased 300 acres on the south side of the Fraser River directly opposite Annacis Island, as a site for a steel plant. The company contemplates an expenditure of $3,000,000 on blast furnaces, wharves, buildings and machinery. The company now possesses 1,700 ft. of water frontage along the Fraser River, and has taken option on 1,500 acres of adjoining property for the purpose of building an industrial city. James A. Moore, of Irondale, Wash., is Pres.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

RIVER PURIFICATION.—Arlington, Mass.—It is proposed to purify the Mystic River, Alewife Brook, and adjacent water courses in this vicinity. Estimated cost, $60,000. John B. Brackett is interested.

DRAINS, DREDGING, ETC.—Boston, Mass.—It is proposed to appropriate $250,000 for constructing drains, dredging and deepening the Neponset River, from Washington St., Walpole, to Dorchester Bay. Henry P. Walcott is Chn. State Bd. of Health.

DAM.—Salem, Mass.—The appointment of a commission is sought to consider the advisability of constructing a dam across the North River, between Salem and Beverly. Robert R. Evans is County Engr.

DOCK SYSTEM.—Boston, Mass.—Among the bills for the betterment of Boston to be introduced into the new Legislature will be one to create a Dock Commission, the purpose being to develop a dock system for Metropolitan Boston, and to establish a free port.

CANAL.—Boston, Mass.—The project of a canal southerly, beginning at Boston Harbor, is being again agitated. The plan is to reach Taunton River, without crossing any main railroad line, with four locks, the summit level being 35 ft. above mean low water. Four branch railroad lines would be crossed, involving one single track and three double-track bridges. A praticallly sea-level route is planned also between Plymouth Harbor and Taunton River, both canals merging into one a portion of the way, crossing three railroad branch lines and calling for three double-track drawbridges. The above project has been embodied in a circular letter of inquiry addressed to anyone concerned, by Col. Frederic V. Abbot, Corps Engrs., U. S. A., the estimates being as follows: Hingham Harbor to Taunton River, 18 ft. deep, $45,135,000 to $49,768,000; 25 ft. deep, $53,373,000 to $60,950,000. Plymouth Harbor to Taunton River, 18 ft. deep, $31,488,000 to $46,731,000; 25 ft. deep, $36,463,000 to $58,968,000. In all the foregoing estimates, the cost of maintenance, capitalized at 4%, is included. Governor Foss in his inaugural address advocated the early construction of the Boston and Brockton Canal, which was reported upon by the State Harbor and Land Commission about ten years ago. Estimated cost, $58,000,000, which includes the cost of 14 locks.

STADIUM.—Boston, Mass.—A stadium is planned for the use of the high school scholars, to be located in the vicinity of Back Bay Park. Charles Logue is Chn. School House Comn.

STATION.—Boston, Mass.—It is proposed to insert a station at the southerly entrance to the Washington St. tunnel, making a stop between Dover and Essex St. stations.

WATERFRONT DEVELOPMENT.—Quincy, Mass.—The Mayor has recommended that the City Council appropriate funds for the development of the city's waterfront.

*DREDGING.—Newport, R. I.—Bids were received on Jan. 13, by Lt. Col. J. C. Sanford, Corps Engrs., U. S. A., for dredging Newport Harbor, as follows: (a) dredging per cu. yd., place measurement; (b) boulders, per cu. yd.; (c) totals: Charles M. Cole, Fall River, Mass., (a) 25 cts., (b) $15, (c) $193,982; Daly & Hannan Dredging Co., Ogdensburg, N. Y., (a) 22.9 cts., (b) $1, (c) $176,414.

SEA WALL.—Providence, R. I.—The city will ask for bids about Mar. 1 for the construction of a sea wall between Field's Point and Sassafras Point. Otis F. Clapp is City Engr.

DOCK.—Bridgeport, Conn.—The officials of the New York, New Haven & Hartford R. R. Co., Edward Gagel, Ch. Engr., New Haven, the Mayor, and Garry Paddock, Chn. Council Harbor Improvement Com., are considering, it is reported, the enlargement of the present city dock and extending it in a southerly direction.

BAY IMPROVEMENT.—New York, N. Y.—**The Sinking Fund Commission took definite action on Jan. 11 in providing a necessary appropriation to begin the inital work for the improvement of Jamaica Bay. The Commission passed a resolution asking the Board of Estimate to appropriate $950,000 in corporate stock. In making the appropriation the Sinking Fund Commission secures the money which the Congressional Committee on Rivers and Harbors set aside. This Congressional appropriation was contingent on favorable action by the city.**

FREIGHT LIFT.—Buffalo, N. Y.—Bids will be received until 3 p. m., Jan. 31, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for an electric push-button freight lift in the U. S. post-office here.

DOCK.—Dunkirk, N. Y.—The Common Council is considering the construction of a public dock.

DREDGING.—New York, N. Y.—Bids were received by Col. S. W. Roessler, Corps Engrs., U. S. A., on Jan. 5, for dredging in Bay Ridge channel, New York Harbor, as follows: Maryland Dredging & Contracting Co., 803 Fidelity Bldg., Baltimore, Md., 17½ cts. per cu. yd.; Daly & Hannan Dredging Co., Ogdensburg, N. Y., 19 cts.; Morris & Cummings Dredging Co., 17 State St., New York, 18 4-11 cts.; P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., 28.65 cts.; American Paving & Construction Co., 211 South 9th St., Philadelphia, Pa., 20.9 cts.; Coastwise Dredging Co., Norfolk, Va., 15.89 cts.

RECLAIMING LAND.—New York, N. Y.—Calvin Tomkins, Comr. of Docks, and Charles B. Stover, Comr. of Parks, have submitted a report to the Mayor regarding the plan and cost of reclaiming land along the Hudson River from 81st to 129th Sts. As outlined, the plan includes covering the tracks of the New York Central R. R. with sheds, and constructing a rip-rap wall along the water front, about 133 ft. wide at bottom, 76 ft. at top, and set in 10 to 30 ft. of water; also to fill in the reclaimed space with earth and other material about 1,251,515 cu. yds. Estimated cost, including rip-rap wall, filling, dredging for foundation, etc., $1,007,461.

*DREDGING.—New York, N. Y.—Bids will be received until noon, Feb. 14, by Col. W. M. Black, Corps Engrs., U. S. A., for dredging and rock removal in the Harlem River, not in the Hudson River, as erroneously noted last week.

ELEVATORS.—New York, N. Y.—Bids were received on Dec. 20 by Michael J. Drummond, Comr. of Charities, New York, for removing four hydraulic elevators in the Kings County Hospital and replacing them with electric elevators. The contract has been awarded to the MAINTENANCE CO., 54-56 Franklin St., New York, at $13,800.

STEEL FURNITURE, ETC.—New York, N. Y.—Bids were received as follows on Jan. 11, by the Armory Board, New York, for furnishing and installing steel furniture, shelving and lockers in the armory of the Second Battery: Van Dorn Iron Works Co., 1 Madison Ave., New York, $7,477; Art Metal Construction Co., $14,495.

REPAIRS TO LAWN MOWERS.—New York, N. Y.—Bids will be received until 3 p. m., Jan. 26, by the Park Board, for repairs to lawn-mowers of the Department of Parks for the Boros. of Brooklyn and Queens.

METAL VAULT LININGS.—New York, N. Y.—Bids were received as follows on Jan. 13, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for metal vault linings at the new assay office building, New York: Remington & Sherman Co., 636 Richmond St., Philadelphia, Pa., $18,800; York Safe & Lock Co., York, Pa., $24,095.

DREDGING.—Norwich, N. Y.—The town is considering the dredging of Canasawacta Creek, and deepening and straightening the channel. Estimated cost, about $10,000.

RESURFACING FLOORS.—New York, N. Y.—Bids were received as follows on Jan. 16 by the Department of Public Charities for furnishing all the labor and materials required for resurfacing the floors at the City Hospital, Blackwells Island, City of New York: Rubin Solomon & Son, $7,895; Rapid Floor Surfacing Co., $6,750; M. M. O'Brien, $7,560; Charles B. Tice, $5,973; Andrews Floor Planing & Surfacing Co., $6,485; The Floor Surfacing Co., $10,562.

PASSENGER STEAMER.—Buffalo, N. Y.—The EMPIRE SHIPBUILDING CO., has received a contract from the Buffalo & Fort Erie Ferry & Ry. Co. F. J. Weber, Pres., 730 Main St., for the construction of a twin-screw steel passenger steamer, 210 ft. long for excursion business between Buffalo and Fort Erie Beach, Ont.

TUNNEL.—New York, N. Y.—The Board of Estimate on Jan. 5 passed a resolution presented by George Cromwell, Pres. Boro. Richmond, asking the Public Service Commission to lay out a tunnel route under the Narrows, between the Boroughs of Richmond and Brooklyn. The tunnel is to connect with the Fourth Ave. subway at 65th St., Brooklyn. The construction of this tunnel will not be taken up until the other subway extensions are built.

ELIMINATION OF GRADE CROSSINGS.—Whitestone (L. I.), N. Y.—The Whitestone Improvement Association is considering a plan in connection with the elimination of grade crossings for filling in a deep cut from the railroad station to the shore front at Whitestone Landing and Beechhurst. This cut practically divides the village in two, and in some places is more than 200 ft. in width. It is spanned by five bridges, four of which are wooden structures. It is now suggested that a stone or cement structure be built over the tracks. Harry W. Wier is interested.

ELIMINATION OF GRADE CROSSINGS.—Flushing (L. I.), N. Y.—The Public Service Commission has ordered the elimination of grade crossings in Queens Borough. The crossings affected are at Flushing on the North Side division of the Long Island R. R. and provide for the abolition of crossings at Lawrence St., Main St., Parsons Ave., Percy St., Wilson Ave., Boerum Ave., Murray St., 22nd St. and Broadway.

***STORAGE BATTERY.—Athenia, N. J.—Bids will be received until 2 p. m., Feb. 3, at the office of the Disbursing Clerk, U. S. Dept. of Agriculture, Washington, D. C., for furnishing and installing a storage battery at the U. S. Animal Quarantine Station, Athenia.**

RACE TRACK.—Uniontown, Pa.—The Uniontown Driving Association is planning to build a race track. Estimated cost, $18,000 to $20,000. R. F. Sample is interested.

GRAIN ELEVATOR, PIERS.—Philadelphia, Pa.—The Pennsylvania R. R. Co., it is reported plans to improve its water front holdings. A new grain elevator will be constructed and new piers are contemplated also. Alexander C. Shand is Ch. Engr., Philadelphia.

IMPROVEMENT OF RIVER FRONT.—Wilmington, Del.—Alexander J. Taylor, Ch. Engr., Street and Sewer Dept., and Frank W. Pierson, Street Comr., have presented to the Board of Directors and the Street and Sewer Department a report on the river front plan. Three routes are recommended in the report, one by way of the present Seventh St. route, to cost about $3,630,500; another by Christiana Ave., in South Wilmington, to cost $1,530,000, the third by Fourth St., eliminating the Seventh St. route. Two bridges would be required on the Fourth St. route, to cost $200,000 each. Road repairs would cost approximately $21,000. The costs given do not include the cost of pier construction. It is also recommended that Christiana Ave. be improved and extended to the present river bank, and the trestle roadway to the bulkhead, construction of a bulkhead and fill. Cost, $389,999, exclusive of back fill.

PIPE, VALVE WORK, ETC.—Washington, D. C.—The following bids were received by the Commissioners of the District of Columbia, on Jan. 10 for furnishing all pipe and valve work, conduits, engines, pumps, pipe covering, etc., forming complete steam connection from boilers to the M St. High School, Simmons and Douglas school buildings, Washington: (a) work complete; (b) alternate A, for omitting engine for the Simmons School: Evans, Almiral & Co., Washington, (a) $10,699, (b) $290, eight months; Dowd Bros., Washington, (a) $9,775, (b) $350, one month after completion of boiler house; J. W. Danforth Co., Washington, (a) $12,200, (b) $400, six months; Crook, Kries & Co., Baltimore, Md., (a) $16,377, (b) $125, six months; Biggs Heating Co., Washington, (a) $12,468, (b) $330, seven months; York Enginering Co., York, Pa., (a) $9,146, (b) $350, six months.

COPPER, CHAIN IRON, ETC.—Washington, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Navy Dept., Washington, until Jan. 24 for furnishing at the various navy yards and naval stations the following supplies: Norfolk, Va., Schedule 3253, 1,800 lbs. sheet copper, 500 lbs. copper tubing, 614 lbs. steel tubing; Boston, Mass., Schedule 3252, 583,640 lbs. chain iron, 13,200 lbs. lead lining; Washington, D. C., Schedule 3251, 11,000 lbs. splice bars, steel rails.

FIRE ENGINE AND WAGON.—Washington, D. C.—Bids will be received by the Commissioners of the District of Columbia, until 2 p. m., Feb. 15 for furnishing one gasoline motor-driven fire engine and hose wagon combined.

ENGINE HOUSE.—Washington, D. C.—Bids were received as follows on Jan. 16, by the Commissioners of the District of Columbia for the construction of a chemical engine house: R. J. Jennings, $24,779; Thomas H. Melton, $25,765; Boyle-Robertson Construction Co., $23,923; Allen T. Howison, $22,600; Burgess & Parsons, $23,500; George E. Wyne, $23,600; Hoge & Luebkert Co., $23,932; McKay & Morris, $24,846; Skinker & Garrett, $22,527.

COAL HANDLING PLANT.—Richmond, Va.—The Old Dominion Development Co., 71 Broadway, New York and Mutual Bldg., Richmond, will expend $100,000 to erect a coal handling plant, daily capacity, 1,000 tons of coal. The company operates the Carbon Hill coal mines, 15 miles from Richmond.

BATH HOUSE.—Richmond, Va.—John P. Branch is considering the construction of a bathhouse in West End. Estimated cost, about $25,000.

LOCK-HOUSES.—Wheeling, W. Va.—Bids for constructing ten lock-houses with water closets at Locks Nos. 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11, Kanawha River, will be received until 11 a. m., January 28, by Capt. F. W. Altstaetter, Corps Engrs., U. S. A.

DRAINAGE.—Wilmington, N. C.—The contract for drainage work in Pender and Bladen Counties has been awarded to the BRITT ENGINEERING & CONTRACTING CO., Wilson, N. C., at $37,000. Bids were opened on Dec. 29. W. K. Allen is Supt. of Construction, Wilmington.

SEA WALL.—Morehead City, N. C.—The following bids were received by the town for the construction of 500 lin. ft. of sea wall of reinforced concrete, interlocking sheet pile construction: Stitzer Engineering & Contracting Co., 1201 Chestnut St., Philadelphia, $4,700; Blalock & Hartsfield, Newbern, N. C., $5,310; R. G. Rand, Winston-Salem, N. C., $5,370; F. W. Schwiers, Jr., Co., New York, $6,550; Clifton Currin, Henderson, N. C., $7,050; W. D. Murray, Norfolk, Va., $7,750; George H. Craft, Dublin, Ga., $10,224; Richardson Construction Co., Norfolk, $15,505.

FIRE STATION.—Fort Screven, Ga.—Bids will be received until 11.45 a. m., Feb. 6, by the Constructing Quartermaster, U. S. A., Fort Screven, for the construction, including plumbing, electric wiring and fixtures, of one fire station here.

CHERT, GRAVEL, ETC.—Atlanta, Ga.—Bids will be received by the Mayor and General Council, at the office of the City Clerk, until 3 p. m., Feb. 6, for furnishing chert and gravel for macadam streets; for brick for repairs of sewers and sidewalks, etc. R. M. Clayton is City Engr.

***DREDGING, ETC.—Jacksonville, Fla.—Bids were received on Jan. 5, by Capt. George R. Spalding, Corps Engrs., U. S. A., Jacksonville, for dredging in Sarasota Bay, Fla., and for sale of dredge "Suwanee." The**

Hillsboro Dredging Co. submitted the only bid at 12½ cts. per cu. yd. About 177,550 cu. yds. will be dredged.

PIERS, DREDGING, ETC.—Jacksonville, Fla.—The Merchants' & Miners' Transportation Co., J. C. Whitney, President, German and Light Sts., Baltimore, Md., according to the "Manufacturers' Record," Baltimore, is arranging for improvements to the East Bay St. terminals. The plans include two warehouses, each 350 × 75 ft., as addition to present piers, giving the company two complete docks, each 600 ft. long and 75 ft. wide. The extensions will be constructed toward Bay St., from the northern end of present piers and necessitate dredging of slip in same direction, contract for which has been awarded to the MERRILL-STEVENS CO., of Jacksonville. This will provide facilities for handling two ships at one time instead of one as at present. Other improvements will include a system of railroad tracks with a capacity for 36 box cars, general office building, 30 × 90 ft. on Bay St. at head of piers, and overhead balcony or sidewalk for passengers commencing at office building with flight of stairs and extending over to and along entire length of piers to steamer berths. The W. T. HADLOW CO., Jacksonville, has the contract to erect piers and office building.

FAIR BUILDINGS.—Meridian, Miss.—The Mississippi-Alabama Fair Association is considering the construction of fair buildings. The Board of Trade, Meridian, is interested.

DAM, ETC.—Opelousas, La.—Col. Lansing H. Beach, Corps Engrs., U. S. A., and the Louisiana State Board of Engineers, are considering, it is reported, the improvement of Bayou Courtableau and Bayou Teche by constructing a dam across the lower end of Bayou Courtableau and connecting that stream with Bayou Teche.

LEVEE.—New Orleans, La.—The New Orleans & Northeastern R. R. Co. and the Southern Pacific Ry. Co. have agreed to construct a new stretch of levee from General Nichols St. to Montegut St., in the Third Levee District.

MACHINERY, ETC., FOR DERRICK-BOAT.—Nashville, Tenn.—Bids will be received until 11 a. m., Feb. 20, by Maj. William W. Harts, Corps Engrs., U. S. A., Nashville, for furnishing machinery, fittings, etc., for derrick boat, Tishomingo.

GRADE CROSSING. — Cincinnati, Ohio.—Surveys have been completed for the construction of the proposed grade crossing viaduct, to be known as the Dodsworth Ave. crossing. The proposed viaduct will be a little over 1,400 ft. long. It will run from the corner of Spring Grove and Dodsworth Aves., opposite Hamilton Ave., crossing Archibald St., the Millcreek, and the Baltimore & Ohio South Western R. R. tracks, to a point on Dodsworth Ave., near Ludlow Ave.

PARKS, GRADE CROSSINGS, ETC.—The city has sold $2,800,000 of bonds, the proceeds to be used as follows: $1,000,000 for the construction of a new hospital; $1,000,000 for parks, and $800,000 for the abolition of grade crossings. F. H. Shipley is City Engr.

LIME.—Elyria, Ohio.—Bids will be received by the Director of Public Service until noon, Jan. 19, for furnishing the Water Department with 600 bbls., more or less, of lime for use in its filtration plant. All prices quoted must be f. o. b. cars water-works pumping station west of Lorain, Ohio.

DITCH.—Wilmington, Ohio.—The work of constructing the H. G. McMillan ditch in Union and Chester Townships, Clinton County, will be sold at public outcry on Jan. 21 at 10 a. m., at a point on the lands of H. G. McMillan, about one-half mile west of Gurneyville, in Chester Township. J. M. Fisher is County Audr., Wilmington.

CANAL WORK.—Columbus, Ohio.—No contracts will be awarded before next May for work on the Miami and Erie Canal, north and south of Dayton. C. W. Diehl is Secy., State Bd. Pub. Wks.

CONCRETE DOCK.—Evansville, Ind.—The Evansville Sand & Gravel Co., will spend $50,000 in building a concrete dock on the river front near the city wharf. The dock will have 500 ft. frontage.

DITCH.—Fort Wayne, Ind.—Ralph W. Guenther, Supt. of Drains, will receive bids until 2 p. m., Jan. 28, for the construction of the Amustutz ditch in Springfield township and the Rosenthal ditch in Wayne township Allen County.

TELEPHONE PLANT.—Winchester, Ind.—The Farmers' Telephone Co., recently organized, will receive bids for the furnishing of all material and equipments for the installation of a telephone plant. Leander Moorman is Pres.

DITCH.—Bluffton, Ind.—Plans and specifications for the construction of a ditch 1½ miles long in Rock Creek township are being made. A mile of the ditch will be through rock formation. Bids will be invited by the Commissioners of Wells County as soon as plans are completed.

MONUMENT.—Princeton, Ind.—The Gibson County Council, Princeton, has appropriated $25,000 for the erection of a soldier's monument in the court house yard. Bids will be asked soon.

MONUMENT.—Richmond, Ind.—The Commissioners of Wayne County, Richmond, are preparing to ask for bids for the erection of a soldiers monument which is to be surmounted with a statue.

RECREATION PIERS, ETC.—Chicago, Ill.—Bond issues aggregating $640,000 are urged in the report of the Special Committee on Bathing Beaches and Recreation Piers of the City Council and the Lake Shore Reclamation Commission of the City Council. The report advocates the construction of a recreation island on Morgan's Reef, lying off 51st St. This would cost $540,000, but in the estimates that expense is scattered over 15 years, and the committee urges an immediate expenditure of $150,000 on its several plans. Of this $50,000 would be for the beginning of the island, while the remaining $100,000 would be spent for bathing beaches and recreation piers in other places. B. J. Mullaney is Comr. Pub. Wks.

DITCH.—Libertyville, Ill.—Bids for the construction of the Seavey Slough Drainage District will be received by the District Commissioners until Jan. 21. There will 8,872 ft. of ditch 6 ft. deep and 15 ft. bottom width; 5,776 ft. of ditch, 6 ft. 2 ins. deep and 13 ft. bottom, and 3,104 ft. of ditch, 6 ft. 8 ins. deep and 4 ft. bottom. Side slopes, approximately 75,963 cu. yds (8,484 yds. already done). Windes & Marsh, Winnetka, Ill., are Engrs.

*DRAINAGE WORK.—Peoria, Ill.—Bids will be received at Peoria, until 2 p. m., Feb. 3, for the following work: Section IX, levee and muck ditch, 165,500 cu. yds; Section X, drainage ditches, 64,300 cu. yds; Sections XI. and XII., furnishing and erecting a complete drainage pumping plant, including excavations, foundations, buildings and machinery. The pumping plant shall have a capacity of 33 cu. ft. per sec. against a maximum static head of 22 ft. The plant shall contain two centrifugal pumps, two induction motors, of the proper size to operate the pumps at specified capacity, two speed reducing transmission gears, and all auxiliary appurtenances, including priming apparatus, switchboard, station wiring, etc. For further information address Harman Engineering Co., 120 Fredonia Ave., Peoria.

COAL UNLOADING RIG.—Superior, Wis.—The contract awarded to the Dodge Machinery Co., by the Berwind Fuel Co., has been sublet to the WISCONSIN BRIDGE CO., Milwaukee, Wis., for an unloading rig with 5-ton buckets.

SLUICEWAY. — Burlington, Iowa. — Bids were received by the Board of Supervisors of Des Moines County, in behalf of the Des Moines County Drainage District No. 1, on Jan. 5, for furnishing material and constructing a reinforced concrete sluiceway with c.-i. sliding gates from plans of the Harman Engineering Co., Peoria, Ill. The contract has been awarded to the FEDERAL CONSTRUCTION CO., Beardtown, Ill., at $12,200.

DRAIN.—Fort Dodge, Iowa—Bids were received on Jan. 13 by J. L. Hanrahan, County Audr., Fort Dodge, for constructing a drain in Webster County, known as Drain No. 49, in Burnside and Dayton Townships, requiring 15 to 30-in. tile. The contract has been awarded to BASH & GRAY, Joplin, Mo., at $24,990. G. P. Smith, Fort Dodge, is Engr.

DRAINAGE. — Pocahontas, Iowa.—Plans have been completed and presented to the Joint Boards of Supervisors of Pocahontas and Palo Alto Counties for the construction of the Pilot Drainage Distri[ct] ... cost, $225,000. F. A. Malco[lm] ... Rolfe, Iowa.

DITCH.—St. Paul, Minn.—B[ids] ... ceived until 2 p. m., Jan. 2[0] ... Iverson, State Audr., St. Paul ... ing State Ditch No. 89, St. ... George A. Ralph is State D[...] St. Paul.

DITCHES.—Bemidji, Minn.— ... County Audr., will receive bi[ds] ... m., Feb. 4, for the construct[ion] ... ditch No. 4, about twelve mile[s] ... ing about 63,000 yds. of exca[vation] ... mated cost, $15,600, of which ... bridge work will be about $3,20[0] ... construction of judicial ditc[h] ... miles long, comprising 81,000 y[ds] ... tion. Estimated cost, $19,0[00] ... about $4,000 for bridge and roa[d] ...

DITCH.—Cambridge, Minn.— ... County Audr., will receive bi[ds] ... m., Jan. 27, for the constructio[n] ... 8, comprising 112,659 yds. of ... twelve acres of clearing, the bu[ilding] ... new bridges and the rebuilding ... bridges. Estimated cost, $11,93[...]

DITCH.—Thief River Falls, ... NORTHWESTERN DRAINAGE ... River Falls, has secured the con[tract] ... construction of a large ditch in ... ty. The total length is 100 mil[es] ... will be 12 cts. per cu. yd.

LIST OF CONTRACTS PENDING.

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
1-21	Oil storage house, Bremerton, Wash. (S.)	12- 1
1-28	Foundry, Bremerton, Wash. (Mfg. P.) (S.)	12- 8
1-28	Repairs, etc., Washington, D. C. (S.)	12-29
2- 4	Roof and runway, Norfolk, Va. (S)	1-12
2- 4	Travelling crane, Norfolk, Va. (S)	1-12
2-11	Oil tanks, Portsmouth, N. H. (S)	1-12
2-24*	Earthwork, Belle Fourche, S. Dak. (S)	12-29

Light, Heat and Power Plants.

Bids close.		Noted in issue of
1-20	Electrical apparatus, Spokane, Wash.	1-19
1-23	Heating and ventilating, Scranton, Pa.	1-19
1-30	Electric plant, Fort Screven, Ga.	1-19
2- 2	Electric wiring, Holdridge, Neb.	1-19
2- 3	Electric wiring, Salt Lake City, Utah	1-12
2- 6	Hydroelectric installation, Tacoma, Wash.	1-19
2- 7	Electric wiring, Roswell, N. Mex.	1-19
2- 7	Electric wiring, Watertown, Wis.	1-19
2- 8	Electric wiring, Melledgeville, Ga.	1-19

Bridges.

Bids close.		Noted in issue of
1-20	Bridges, Morris, Man.	1-19
1-21	Bridge, Bartlesville, Okla.	1-19
1-23	Bridge, Lawrence, Va.	1-19
1-23	Bridge, Wilkes-Barre, Pa.	1-19
1-23*	Bridge work, Washington. D. C.	1-12
1-28	Bridge work, Lawrence, Kan.	1-19
1-30	Bridge, Gate City, Va.	1-19
1-30	Bridge, Kalamazoo, Mich.	1-19
1-30	Bridge work, Akron, Ohio	1-19
1-30*	Bridges, Kansas City, Mo	1-12
2- 1*	Bridge plans, etc., Richmond, Va.	12- 8
2- 6	Steel bridge, Ocilla, Ga	1-12
2- 6	Substructure, Zanesville, Ohio	1-19
2- 8*	Bridge, Salem, N. J.	1-19
2-27	Bridge, Yankton, S. Dak.	1-19

Buildings.

Bids close.		Noted in issue of
1-21*	Post-office, etc., Bowling Green, Ky.	12-29
1-23	Custom-house repairs, Quebec, Que.	12-29
1-23	Plans for school bldg, Reno, Nev.	1-12
1-23	Customs House, Quebec City, Que	1-12
1-23	Addition to plant, Waterbury, Conn. (Mfg. Pl.)	1-19
1-24*	Building equipment, Albany, N. Y.	12-22
1-25*	Post-office, Stevens Point, Wis.	[illegible]
1-25	School house, Boston, Mass.	1-19
1-26*	Building, Washington, D. C.	12- 1
1-26	Post-office, Independence, Kan.	12-29
1-28	Repairs, etc., Washington, D. C., (Mfg. Pl.)	12-29
1-28	Foundry, Bremerton, Wash. (Mfg. Pl.)	12- 8
1-28	Dept bldg, Ottawa, Ont.	1-19
1-28	Erection of bldg, Toronto, Ont.	1-19
1-30	Post office, Battleford, Sask.	1-19
1-30	Postal station, Toronto, Ont.	1-19
1-30	Post office, etc., Lindsay, Ont.	1-19
1-30	Public Bldg., Mount Forest, Ont.	1-19
1-31	Court-house, Onida, S. Dak.	10-20
2- 1	Building, Lockport, N. Y.	12-15
2- 1	Mills, Los Angeles, Cal. (Mfg. Pl.)	12-22
2- 1	Buildings, Owings Mills, Md.	1- 5
2- 1	Building, Baltimore, Md	1-12
2- 2	Post-Office, Holdredge, Neb	1-12
2- 2*	Post-office, etc., Roswell, N. Mex.	1- 5
2- 3*	Post-office, etc., Salt Lake City, Utah	1- 5
2- 3	Erection of building, Hillsdale, Mich	1-12
2- 6	Post-office, Mt. Clemens, Mich.	1- 5
2- 7	Post-Office, etc., Watertown, Wis.	1-12
2- 7	Courthouse, Griffin, Ga.	1-19
2- 8*	Building, Milledgeville, Ga	1-12
2-14	Post office, etc., Barre, Vt.	1-19
2-15	Post office, etc., Brazil, Ind.	1-19
2-18*	Post office, North Yakima, Wash.	1-19
2-20	Post office, etc., Big Stone Gap, Va.	1-19
2-23	Erection of bldg. etc., Murphysboro, Ill.	1-19
2-26	School, Carcross, Yukon	1- 5
4-15	Plans, Havana, Cuba	10-20

Water-Works.

Bids close.		Noted in issue of
1-20	Pumps, water pipe, Spokane, Wash	1-12
1-21	Water mains, Newburgh, Ohio	1- 5
1-21	Water-works supplies, Chicago, Ill.	1-19
1-21	Cast-iron pipe, etc., Youngstown, Ohio	1-19
1-23	Water pipe, Georgetown, Tex.	1-19
1-23	Pipe, Astoria, Ore.	1- 5
1-23	Water pipe, Vallejo, Cal.	1-12
1-24	Fire hydrants, Louisville, Ky.	1-19
1-25	Water system, Ontario, Cal.	1-19
1-26*	Dam, etc., Fowler, Colo	1-12
1-26	Pump, Kansas City, Mo.	1- 5
1-27*	Pumps and motors, Chicago, Ill.	1-19
1-28	Well, Fort George Wright, Wash.	1-19
1-30	Franchise, Los Angeles, Cal.	1-12
1-31	Well, State Center, Iowa	1-12
2- 1	Water pipe, sewer pipe, Souris, Man.	12- 1
2- 4	Water mains, Troy, Ohio	1-19
2- 6	Water-works, Rippey, Iowa	1- 5
2- 6*	Pumping plants, Winnipeg, Man.	1-12
2-14	Water purification works, Toledo, Ohio	1-19
2-13*	Well, South River, N. J.	1-19
2-24*	Earthwork, Belle Fourche, S. Dak.	12-29
3- 1	Water-works, Atlantic, Iowa	1- 5

Sewers.

Bids close.		Noted in issue of
1-20	Sewer, Louisville, Ky.	1-12
1-20	Sewers, Troy, N. Y.	1-19
1-20	Sewer, Carrington, N. Dak.	1-19
1-21	Sewers, Fordyce, Ark.	12- 8
1-23	Sewers, Lebanon, Ind	1-12
1-25	Sewers, Brooklyn, N. Y.	1-19
1-26	Sewers, New York, N. Y.	1-19
1-26	Sewer, Syracuse, N. Y	1-12
1-26	Sewer, Richmond, Ind.	1-19
1-27	Sewers, Lorain, Ohio	1-19
1-27	Sewer, Campaign, Ill.	1-19
1-27*	Sewer, Corpus Christe, Tex	1-12
1-27*	Sewer, Chicago, Ill.	1-19
1-28	Sewer, Alexandria, S. Dak.	1-12
1-28	Sewer, Syracuse, N. Y.	12-29
1-28	Sewer, Syracuse, N. Y.	1- 5
1-29	Sewer, Spokane, Wash.	1-12
2- 1	Sewerage disposal system, Baltimore, Md.	1-19
2- 6	Sewers, Atlanta, Ga.	1-19
2- 7*	Sewers, Toronto, Ont	1-12

Streets and Roads.

Bids close.		Noted in issue of
1-20	Road extension, Cincinnati, Ohio	1- 5
1-20	Improving road, Cincinnati, Ohio.	1- 5
1-20	Paving, etc., Youngstown, Ohio	1-12
1-20	Improving pike, Cincinnati, Ohio.	1-12
1-20	Paving, Cleveland, Ohio	1-12
1-20	Improving street, Cincinnati, Ohio	1-19
1-21	Stone road, Alpine, N. J.	1- 5
1-23	Road improvements, Wetumpka, Ala.	1- 5
1-23	Gravel road, etc., Lebanon, Ind.	1-12
1-23	Improving road, Los Angeles, Cal.	1-12
1-23	Repairing pavements, New York.	1-12
1-23	Paving, Syracuse, N. Y.	1-19
1-24*	Paving, etc., Dallas, Tex	1-12
1-25	Grading, etc., Hemet, Cal	1-12
1-25	Grading, etc., Wenatchee, Wash.	1-12
1-25	Pavement, New York, N. Y.	1-19
1-27	Paving, Cleveland, Ohio	1-12
2- 1	Gravel road, Fowler, Ind.	1- 5
2- 2	Macadam road, Fort Wayne, Ind.	1-19
2- 3	Culverts, Cincinnati, Ohio	1-19
2- 6*	Paving, Huntington, W. Va.	1-19
2- 6	Sidewalks, etc., Atlanta, Ga.	1-19
2- 6	Gravel road, Huntington, Ind.	1-12
2- 7	Sidewalks, Palatka, Fla	1-12
2- 7	Paving, Newburgh, N. Y.	1-12
2- 7	Gravel road, Crawfordsville, Ind.	1-12
2- 7	Gravel road, Logansport, Ind.	1-19
2- 7	Macadam road, Marion, Ind.	1-19
2- 7	Gravel roads, Winamac, Ind.	1-19
2- 7	Road, Martinsville, Ind.	1-19
2- 8	Road improvement, Cleveland, O.	1-19
2- 8	Gravel road, Mt. Vernon, Ind.	1-19
2- 8	Road construction, Cleveland, O.	1-19
2-15	Road construction, Cleveland, O.	1-19
2-23	Paving, Portland, Ore.	1-19

Miscellaneous.

Bids close.		Noted in issue of
1-19	Lime, Elyria, Ohio	1-19
1-20	Ditch, St. Paul, Minn.	1-19
1-20	Cableway, Hoist, etc., Los Angeles, Cal.	1-19
1-20	Machinery, etc., for Derrick-boat, Nashville, Tenn.	1-19
1-20	Wagon shed, Fort Crockett, Tex.	1-12
1-20	Electric cars (Elec. Rys.), New York, N. Y.	1- 5
1-20*	Pier, Philadelphia, Pa.	1- 5
1-20	Ditch, Moorehead, Minn.	12- 8
1-21*	Dredging, Stamford, Conn	12-29
1-21	Dredging, filling, Minneapolis, Minn.	12-29
1-21	Ditch, Wilmington, Ohio	1-19
1-21	Ditch, Libertyville, Ill.	1-19
1-21	Lumber, Dallas, Tex.	1-19
1-21	Well, Hawaii (U. S. Poss.)	1-19
1-23	Telephone material, Edmonton, Alta	1-12
1-23	Garbage collection (garbage), Everett, Mass.	1-19
1-23	Wire rope, Los Angeles, Cal.	1-19
1-23	Levees, etc., San Mateo, Cal	1-19
1-24	Copper, Chain Iron, etc., Washington, D. C.	1-19
1-24	Ditch, Vermillion, S. Dak.	1-19
1-24	Elevators, Cincinnati, Ohio	1-12
1-24	Steel plates, Brumerton, Wash.	1-12
1-24	Steel rails, Ottawa, Ont.	12-22
1-24	Rebuilding wharves, etc., Philadelphia, Pa.	12-22
1-24	Pump and boiler repairs, etc., Chile (Foreign)	1- 5
1-25	Sprinkling (garbage), New York.	1-19
1-26*	Bank protection, Savannah, Ga.	12-29
1-26*	Steel barges, New Orleans, La.	12-29
1-26	Repairs to Lawn mowers, New York.	1-19
1-27	Life-saving station, Eagle Harbor, Mich.	12-29
1-27	Ditch, Cambridge, Minn.	1-19
1-28	Tile drains, Alexandria, S. Dak.	1-19
1-28	Ditch, Fort Wayne, Ind.	1-19
1-28	Lock-houses, Wheeling, W. Va.	1-19
1-30	Breakwater, Port Burwell, Ont.	1- 5
1-30*	Telephone system, West Point, N. Y.	1- 5
1-31	Freight lift, Buffalo, N. Y.	1-19
2- 1*	Harbor Lines, New York	1-12
2- 1*	Cargo Handling Cranes, Panama (U. S. Poss.)	1-19
2- 3*	Drainage work, Peoria, Ill.	1-19
2- 3*	Storage battery, Athenia, N. J.	1-19
2- 4	Ditches, Bemidji, Minn.	1-19
2- 4	Roof and runway, Norfolk, Va.	1-12
2- 4	Travelling crane, Norfolk, Va.	1-12
2- 6	Torpedo boats, Washington, D. C.	12-15
2- 6	Chert and gravel, etc., Atlanta, Ga.	1-19
2- 6	Fire station, Fort Screven, Ga.	1-19
2- 7*	Dams and canals, Porto Rico, (U. S. Poss.)	12-22
2-9	Steel fences, Fort Meade, S. Dak.	1-19
2-11	Oil tanks, Portsmouth, N. H.	1-12
2-11*	Dredging, Galveston, Tex	1-12
2-14*	Dredging and rock removal, New York	1-12
2-15	Steel steamer, Ottawa, Ont.	12-29
2-15	Boiler, Ottawa, Ont.	1-19
2-15	Fire engine and hose wagon, Washington, D. C.	1-19
2-22	Steel tramway plates, Australia (Foreign)	12- 8
2-25	Machinery for gate valves, etc., Panama (U. S. Poss.)	1- 5
2-28	Elec. pumping machinery, Australia (Foreign)	12-29
3- 1	Bath house, Hot Springs, Ark	1-12
3- 1	Ventilating apparatus, So. Africa (Foreign)	1-19
3-14	Wireless telegraphy installation, Australia (Foreign)	1-19
3-30	Dams, etc., Panama (U. S. Poss.)	1-19
4-20	Hospital, etc., (plans and designs) Argentine Republic (Foreign)	1-12

Examinations.

Examination date.		Noted in issue of
1-28	Asst. in tobacco investigations, Wash., D. C.	12-29
2- 3	Asst. engineer, New York, N. Y.	12-29
2- 3	Assistant engineer, New York, N. Y.	1- 5
2- 7	Assistant Classifier, Washington, D. C.	1- 5
2- 8	Assistant Physicist, Wash., D. C.	12-22
2- 8	Assistant Curator, Wash., D. C.	12-22
2- 8	Preparator, Division of Technology, Wash., D. C.	12-29
2- 8	Topographic Aaid, Washington, D. C.	12- 8
2- 8	Aid, Washington, D. C.	1-19
2- 8	Topographic Draftsman and copyist, topographic draftsman, Washington, D. C.	1-19
2- 9	Asst. Geologist, Washington, D. C.	12- 8
2- 9	Junior Topographer, Washington, D. C.	12- 8

DRAINAGE.—Dakota, Neb.—Bids will be received until Jan. 20 by Drainage District No. 2, for drainage work, from the plans of the Fow [illegible] Engineering Co., Omaha, Neb. Estimated cost, about $40,000. Jacob F. Leamer is Secy., Dakota.

TILE DRAINS.—Alexandria, S. Dak.—Bids will be received until Jan. 28 by M. Volz, County [illegible], for constructing tile drains in Drainage District No. 6, consisting of 7½ miles of [illegible] 24-in. tile drain. Dakota Engineering [illegible], Mitchell, S. Dak., is Engr.

STEEL FENCES.—Fort Meade, S. Dak.—Bids will be received by Capt. J. S. Parker, Constr. Q. M., U. S. A., until 10 a. m., Feb. 9, for furnishing all labor and material and constructing steel fences for troop corrals at Fort M[illegible].

DITCH.—Vermillion, S. Dak.—Bids will be received until 2 p. m., Jan. 24 by Theodore Anker, County Audr., for constructing Vermillion Valley Ditch No. 1.

REVETMENT. — Kansas City, Mo.—Bids were received by the U. S. Engineer, Postal Bldg., Kansas City, on Jan. 5, for the construction of 13,000 ft. of willow and stone revetment six miles below Kansas City, on the Missouri River, as follows: (a) 13,000 ft. revetment; (b) for piles driven in place, yellow pine (c) same, cottonwood: Dewitt & Shoh[illegible], Glasgow, Mo., (a) $8.44, (b) 35 cts., (c) [illegible] cts.; Thomas Jones & Son, Leavenworth, Kan., (a) $8.60, (b) 50 cts., (c) 40 cts.; [illegible]att & Bemis, Seward, Neb., (a) $8.60, (b) [illegible] cts.; Rush, Swift & Co., St. Louis, Mo., (a) $8.29, (b) 35 cts., (c) 30 cts.

WHARF BOAT.—St. Louis, Mo.—The Eagle Packet Co., St. Louis, will build a steel wharf boat for use in the St. Louis trade. Estimated cost, $10,000. Henry Leyhe is Gen. Mgr.

BRICKS.—St. Louis, Mo.—A. Anderson & Co., Victoria Bldg., St. Louis, desire estimates on 300,000 all hard common, 45,000 dark red pressed, and 2,000 light gray pressed bricks.

LEVEES.—Texarkana, Ark.—Surveys will be made for the construction of levees along the Red River for the Miller & Boise Red River Improvement Association. R. H. T. Mann is Pres.

DITCH.—Paragould, Ark.—Engineers of Lawrence and Greene County Drainage Ditch No. 1 on Dec. 21 filed reports which show that the main ditch will be about 32 miles long, running about 16 miles in Greene County and the same distance in Lawrence County. It will drain Lower Cache River. About 30 miles of laterals will be constructed in each county. About 100,000 acres will be drained. Estimated cost of digging the main ditch and laterals, $285,000.

LUMBER.—Dallas, Tex.—Bids will be received by George L. Fearn, County Audr., Dallas, until Jan. 21 for 12,760 ft. of best No. 1 heart rough lumber f. o. b. Dallas, in the following sizes: 5,760 ft. 2 × 12 × 16, 2,000 ft. 3 × 10 × 12., 4,000 ft. 3 × 12 × 16, 1,000 ft. 2 × 10 × 16.

DRAINAGE.—Brownsville, Tex.—The Commissioners of Drainage District No. 1 of Cameron County have authorized an issue of $204,500 of bonds for the construction of a drainage system.

DRAINAGE.—Chickasha, Okla.—The Brady County Commissioners are planning to construct the Minco drainage ditch. Estimated cost, $22,000.

GASOLINE BOAT.—Cathlamet, Wash.—A $20,000 gasoline boat is to be built for the Clatskanie Transportation Co. Address Capt. James Shaver.

TELEPHONE SYSTEM.—Pe Ell, Wash.—H. W. Weller has petitioned the Town Council for a franchise to install a telephone system here. He also contemplates extensions to McCormick, Walville, Doty and Dryad.

DREDGE.—Portland, Ore.—The Port of Portland will construct a dredge to be a duplicate of the Columbia. Estimated cost, $230,000.

FIRE ENGINE.—Longbeach, Cal.—The Council has opened bids as follows for the purchase of a new motor-driven fire engine: Matt Fire Engine Co., Minneapolis, Minn., Matt 600-gallon per min. capacity, 90-HP., $10,000; Matt, 1,000 gallons, per min. capacity, 100-HP., $11,000; Robinson Fire Apparatus Mfg. Co., St. Louis, Robinson 600 gallons a min. capacity, 120-HP., $8,460; Robinson, 700 gallons a min. capacity, 80-HP., $7,975. Webb Fire Engine Co., St. Louis, Webb, 600 gallons a min. capacity, 90-HP., $8,500. Knox Automobile Co., Springfield, Mass., Knox, 600 gallons a min. capacity, 90-HP., $8,800.

GRAVEL AND SAND.—Los Angeles, Cal.—The TEJUNGA ROCK & GRAVEL CO., H. W. Hellman Bldg., Los Angeles, has been awarded the contract for furnishing 4,000 tons of gravel and sand for use on the county highways.

ROCK.—Los Angeles, Cal.—The War Department has awarded the contract to W. S. RUSSELL, Bryson Bldg., Los Angeles, for closing the gap in the government breakwater at San Pedro, at $1.38 per ton; 166,667 short tons of rock are required for the work.

FABRICATED STEEL RIVETS.—Los Angeles, Cal.—The Board of Public Works has awarded the contract to the CAMDEN IRON WORKS, Camden, N. J., for furnishing all fabricated steel and rivets necessary to construct 1,409 ft. of riveted steel siphon 9 ft. 6 ins. in diameter, at $9,400. List of bidders noted on Jan. 5.

CABLEWAY HOIST, ETC.—Los Angeles, Cal.—The Board of Public Works will receive bids until Jan. 20 for one 2-drum electric cableway hoist and one cable carriage of the 3-wheel type, for use on the Aqueduct.

FERRY STEAMERS.—San Francisco, Cal.—It is reported that the Southern Pacific Co. will receive bids for the construction of a fleet of steel, side-wheel ferry steamers to take the place of the old boats now plying between this city and Oakland. Bids will be called for from local builders, but specifications have been so drawn that Eastern yards will have a chance to bid on the steel hulls to be put together at the Southern Pacific shipyard in Oakland Creek. I. O. Rhodes is Gen. Purchasing Agt., San Francisco.

HARBOR IMPROVEMENTS.—San Francisco, Cal.—The State Board of Harbor Commissioners on Jan. 5 laid out plans for harbor improvements. Alternate plans for the construction of pier 32 at the foot of Spear St., submitted by the Harbor Engineer, were adopted by the board. One plan calls for the wooden style of flooring and the other for concrete flooring. The estimated cost of the pier with wood flooring is $320,000 and the concrete flooring style $377,000. The engineer was instructed to prepare plans and specifications for the construction of Pier 46 and for the extension of the bulkhead from Pier 40 to Channel St. The engineer was also instructed to prepare plans and estimates of cost for the extension of the seawall from Pier 44 to the north side of Channel St., inclusive of a bridge to span Channel St.; also for a concrete wall to confine land from the north side of Channel St. to Third St.

DREDGING.—Stockton, Cal.—The Chamber of Commerce is considering dredging the upper portion of Stockton channel and McLeod's Lake, an arm of the channel, the cost to be paid out of the surplus from the $25,000 the U. S. Government appropriates annually, to keep the waterway in good condition. R. C. Tumelty is City Engr.

WIRE ROPE.—Los Angeles, Cal.—The Board of Public Works will receive bids until Jan. 23, for furnishing 1,600 ft. of 1½-in. and 4,500 ft. of ⅝-in. wire rope.

LEVEES, ETC.—San Mateo, Cal.—The Board of Trustees will receive bids until Jan. 23, for flood-gates and levees.

CANAL.—San Jose, Cal.—It is reported that Capt. E. G. Cooper, San Jose, and associates, are interested in a proposition to construct a lock canal connecting San Jose and South San Francisco Bay, a distance of ten miles. A 15-ft. channel is planned.

DREDGING.—Oakland, Cal.—It is planned to dredge San Leandro Bay for shipping purposes. Frank M. Smith, Oakland, is interested.

LOCOMOTIVES.—Kingston, Ont.—LOCOMOTIVE WORKS, LTD., has been awarded a contract by the Canadian Northern Ry. Co., for ten locomotives for passenger trains.

BOILER.—Ottawa, Ont.—Bids will be received until Feb. 15, by G. J. Desbarats, Deputy Minister of Marine and Fisheries, Ottawa, for a marine boiler, of ordinary cylindrical, return tube type, 129-in. external diameter, 11-ft. long; working pressure 100 lbs., delivery at Halifax, N. S.

RAISING STEAMER.—Port Huron, Ont.—The contract for raising the sunken steamer "John Sharples," has been awarded to CAPT. HOWARD W. BAKER, Detroit, Mich., and CAPT. JAMES REID, Port Huron, at $80,000.

CABLE SHIP.—Vancouver, B. C.—The British Columbia Telephone Co., has decided to build a cable ship at a cost of $30,000 for laying cables between Vancouver Island and the main land.

TELEPHONE SYSTEM.—Kamloops, B. C.—The City Council is considering the installation of a municipal telephone system. Address Alderman Bulman.

LIVE STOCK PAVILION.—Edmonton, Alta.—The City Council has voted $175,000 for a live stock pavilion.

TELEGRAPHONE WIRES.—The Canadian Pacific Ry. during the present year will install an additional 2,000 miles of telegraphone wires for operating trains. J. E. Schwitzer is Asst. Ch. Engr., Winnipeg.

TELEPHONE MATERIAL. — Edmonton, Alta.—Bids will be received until noon, Jan. 23, by John Stocks, Deputy Minister of Public Works, Edmonton, for telephone material required by the department for its provincial lines and extensions during the present year.

STEAMBOAT AND SCOWS.—Prince Albert, Sask.—The city has voted $62,000 for a steamboat and scows to be used for hauling gravel for civic improvements.

U. S. POSSESSIONS.

BREWERY.—Panama.—The Anheuser-Busch Brewing Association is planning to erect a brewery in the city of Panama. Estimated cost, $500,000.

WELL.—Hawaii.—Bids will be received by Capt. M. N. Falls, Constr. Q. M., U. S. A., Honolulu, until 10 a. m., Jan. 21, for sinking a 12-in. tubular deep well at Kapahulu, near Fort Ruger, Hawaii.

CHAIN.—Philippine Islands.—The Government has awarded the contract, it is reported, to the STANDARD CHAIN CO., 525 Third Ave., Pittsburg, Pa., for 96,400 ft. of chain to be used to anchor torpedo mines in several harbors in the Philippine Islands.

*CARGO HANDLING CRANES.—Panama.—Bids will be received until 2 p. m., Feb. 1, by Maj. Wendell L. Simpson, U. S. A., Asst. Purchasing Officer, Panama R. R. Co., 24 State St., New York, for furnishing eight 4-ton electric cargo handling cranes.

DREDGING.—Hawaii.—The only bids received on Jan. 7, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for dredging of slips Nos. 1 and 2, at the Naval Station, Honolulu, was that of the Standard American Dredging Co., 706 Merchants' Exchange, San Francisco, Cal., at 58½ cts. per cu. yd., for Item (1) and 75 cts. for Item (2).

RAILROAD WORK.—Panama.—The Secretary of War has asked Congress for an appropriation of $1,750,000 to enable the government to relocate the line of the railroad crossing the Isthmus of Panama, because of the slides incident to the work on the Culebra cut.

DAMS, ETC.—Panama.—Bids will be received until 10.30 a. m., March 30, by Capt. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing and erecting emergency dams at the canal locks and for furnishing and delivering certain tools, equipment and spare and repair parts under Circular 616.

LUMBER.—Panama. — The contract has been awarded to the GRESS MFG. CO., 18 Broadway, New York, for furnishing 1,543,000 ft. B. M., of long leaf yellow pine lumber, under circular 613, at $25,402; and to the ENSIGN LUMBER CO., Jacksonville, Fla., for furnishing 1,517,640 ft., B. M., of lumber, long leaf yellow pine or Douglas fir at bidder's option, at $35,058.

STEEL.—Panama.—Bids were received as follows on Jan. 5 by Capt. F. C. Boggs, Corps Engrs., U. S. A., General Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing 994,362 lbs. of mechanical bond steel bars for use in concrete steel construction: Concrete Steel Co., New York, $14,761.20; 45 days. Corrugated Bar Co., St. Louis, Mo., $15,058; 45 days. Trussed Concrete Steel Co., Detroit, Mich., $14,682; 28 days. J. B. Kendall Co., Washington, D. C., $14,552; 55 days. $15,167; 30 days.

Contract has been awarded to the J. B. KENDALL CO., Washington, D. C., agent for Jones & Laughlin, Pittsburg, for furnishing 2,320,000 lbs. of the same material, under circular 613, at $36,355; 65 days. Bids were opened on Dec. 27.

CONTRACT PRICES.

PAVEMENT.—Winnetha, Ill.—Bids were received Jan. 3 for brick pavement from: (A) Indiana Paving Brick & Block Co., Indianapolis, Ind., (B) Western Improvement Co., Racine, Wis.; (C) James Cape & Sons, Racine, Wis. Itemized bids were as follows:

PAVEMENT, WINNETKA, ILL.

	A	B	C
16,326 sq. yds. brick paving, 5″ concrete base, 2″ sand cushion, asphalt filler	$1.90	$2.00	$2.00
14,970 ft. concrete curb and gutter on cinders	.60	.60	.60
10,700 cu. yds. excavation	.35	.25	.30
21 catch basins, duplex covers	30.00	30.00	30.00
3 inlets, duplex covers	10.00	6.00	10.00
404 ft. of 8″ sewer, 5 ft. deep	.50	.25	.50
313 lin. ft. of 3″ × 12″ pine plank end curb	.25	.10	.20
40 old manholes adjusted	2.50	.50	3.00
10 old catch basins adjusted	2.50	.50	5.00
10 old inlets adjusted	2.50	.50	5.00
Totals	$44,302	$45,119	$45,989

PAVING.—Grand Haven, Mich.—Bids were received by the City, Riggs & Sherman Co., Engrs., Toledo, Ohio, on Jan. 3, for paving at Grand Haven, from: (A) W. W. Hatch & Son Co., Hammond Bldg., Detroit, Mich.; (B) Markle Cement & Coal Co., Muskegon, Mich.; (C) C. H. Kaumuer, 919 Sixth St., Port Huron, Mich.; (D) C. Marsman, 226 Sixth St., Grand Rapids, Mich.; (E) Farell Bros., 701 Main St., W., Lansing, Mich.; (F) Carpenter & Anderson, Shepard Block, Grand Rapids, Mich. (two bids); (G) C. E. Williams, 33 Paddock St., Grand Rapids, Mich.; (H) Anson Greene, 47 South Union St., Grand Rapids, Mich.; (I) John Vander-Weele & Cornelius Vander-Weele, 51 Baldwin St., Grand Rapids, Mich. The itemized bids follow:

PAVING GRAND HAVEN, MICH.

	A	B	C	D	E	F	F	G	H	I
12 old inlets reset	$3.00	$3.25	$3.00	$3.00	$2.00	$2.00	$2.00	$3.00	$1.00	$3.00
16 c.-i. inlets complete	15.00	16.00	13.00	15.00	15.00	10.00	10.00	15.00	7.00	15.00
1 combined catch basin and inlet	40.00	40.00	40.00	40.00	30.00	20.00	20.00	30.00	15.00	35.00
2 brick catch basins	35.00	....	35.00	35.00	35.00	20.00	20.00	30.00	35.00	40.00
Manholes and covers	35.00	30.00	35.00	40.00	35.00	30.00	30.00	30.00	35.00	45.00
8 new c.-i. covers for old manholes	10.00	14.00	11.00	.12.00	15.00	10.00	10.00	10.00	8.50	12.00
739 lin. ft. headers, 5 × 14-in.	.40	.40	.35	.40	.40	.40	.40	.40	.50	.50
315 lin. ft. gutter plate headers	.35	.40	.40	.30	.40	.30	.30	.30	.50	.40
8,248 lin. ft. combined curb (6″) & gutter (14″)	.48	.52	.55	.50	.45	.35	.35	.45	.38	.43
739 lin. ft. cobble stone pavers at headers	.12	.15	.15	.15	.15	.10	.10	.15	.15	.15
45 c.-i. gutter plates in place	9.00	7.00	7.00	7.00	7.00	3.00	3.00	7.00	5.00	7.00
Pavement laid on new 6-in. concrete foundation:										
14,627 sq. yds. with Bessemer block	1.96	....	1.92	1.72	1.85	....	....	1.69	1.75	....
14,627 sq. yds. with Harris block	1.96	....	....	....	....	1.75	....	....	....	....
14,627 sq. yds. with Nelsonville block	....	....	1.88	....	....	....	....	....	....	....
14,627 sq. yds. with Athens block	....	....	1.88	....	....	....	....	....	....	....
14,627 sq. yds. with Metropolitan block	....	....	1.93	....	1.86	1.75	....	1.71	1.75	....
14,627 sq. yds. with No. 1 block	....	....	....	....	....	....	....	....	....	1.80
14,627 sq. yds. asphalt filler	.20	....	.20	.20	.20	.15	.15	.15	.20	.20
14,627 sq. yds. cement filler	.08	....	.10	.05	.12½	.07	.07	.09	.06¾	.06
14,627 sq. yds. sand filler	.02	....	....	.02	.05	.02	.02	.03	.04	.02
50 cu. yds. extra gravel or broken stone	1.00	1.25&1.50	1.25	av.	1.25	1.25	1.25	av.	1.20	1.25
10 cu. yds. extra concrete	4.50	7.00	4.00	8.00	5.00	4.00	4.00	7.00	4.00	5.00
718 lin. ft. 10-in. connections in place	.70	.70	.60	.70	.60	.45	.45	av.	.45	.35
276 lin. ft. 12-in. connections in place	.80	.80	.70	.80	.70	.50	.50	.80	.50	.40
100 hrs. common labor	.25	.25	.25	.25	.25	.20	.20	.25	.22½	.20
50 hrs. skilled labor	.40	.50	.40	.40	.40	.30	.30	.40	.30	.40
50 hrs. team labor	.50	.50	.45	.50	.50	.40	.40	.50	.40	.40
8,248 lin. ft. machine dressed 4 × 18-in. set in sand	.50	....	....	....	....	....	....	....	....	....
12,294 "Westrumite" wearing surface	1.88	....	....	....	....	....	....	....	....	....
50 cu. yds. extra crushed stone	1.90	....	....	....	....	....	....	....	....	....
14,627 sq. yds. before Jan. 15—Bessemer block	1.94	....	....	....	....	....	....	....	....	....
2,333 sq. yds. with Westrumite brick between rail.	2.07	....	....	....	....	....	....	....	....	....
14,627 sq. yds. Tarvia X on 5-in. base course, 2½-in. top	....	1.19½	....	....	....	....	....	....	....	....
8,248 lin. ft. combined curb and gutter on sand	....	....	....	.40	....	....	....	....	....	....
14,627 sq. yds. treated or asphalt macadam	....	....	....	1.17	....	....	....	....	....	....
14,627 sq. yds. asphaltic concrete pavement	....	....	....	1.75	....	....	1.70	....	....	....
16,627 sq. yds. Tarvia X on 6-in. concrete foundation, 3-in. top	....	1.60	....	....	....	....	....	....	....	....
14,627 sq. yds. Tarvia X on 6-in. crushed stone, 4-in. top	....	1.33	....	....	....	....	....	....	....	....
14,627 sq. yds. Tarvia X on crushed stone, 4-in. top	....	....	....	....	....	....	....	....	1.18	....
14,627 sq. yds. Tarvia X on concrete base, 4-in. top	....	....	....	....	....	....	....	....	1.58	....
14,627 sq. yds. asphalt macadam on 6-in. concrete.	....	....	....	....	....	....	....	1.20	....	....
14,627 sq. yds. asphalt macadam on 6-in. broken stone	....	....	....	....	....	....	....	1.18	....	....
14,627 sq. yds. tar macadam on 6-in. concrete	....	....	....	....	....	....	....	1.17	....	....
14,627 sq. yds. tar macadam on 6-in. broken stone	....	....	....	....	....	....	....	1.15	....	....
Total brick on 6-in. concrete	$35,957	......	$35,554	$32,247	$34,738	$31,050	......	$31,828	$31,485	$32,695
Total brick if contract is awarded before Jan. 15.	$35,665	......	......	$24,203	......	......	......	$23,344	$22,161	......
Total Westrumite with brick between rails	$35,230	......	......	$32,686	......	......	......	$23,051	$28,012	......
Tarvia X on 5-in. base course, and 2½-in. top	......	**$24,064**	......	......	......	......	......	**$22,895**	......	......
Tarvia X on 6-in. base course, and 2½-in. top	......	**$26,038**	......	......	......	......	......	**$22,583**	......	......
Tarvia X on 6-in. base course, and 3-in. top	......	**$29,988**	......	......	......					

FOREIGN CONTRACTS.

(To insure prompt attention, letters on consular business should be addressed to The American Consul at ———. Such letters are opened and attended to by whoever may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes.

If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

SEWAGE WORKS.—Italy.—Plans and estimates have been approved for the construction of various sewage works at Naples. Cost, about $94,800.

MILL.—Venezuela.—It is reported that a large mill for the manufacture of cotton goods will be constructed soon at Cumana. Address, Aquiles Iturbe.

RAILWAY—Portugal.—The contract has been awarded to ANTONIO ERQUEIRA MAGRO for the construction of a railway between Penafiel and Lixa.

PORT.—Argentine Republic.—The contract for the construction of a port for ocean-going vessels at Mar del Plata has been awarded to JUAN SILLARD, JULIO DOLLFUS & FELIX ALLARD.

BRIDGE.—Spain.—A movable bridge will be constructed over a river in a district of Spain where an American Consul is stationed. For further information address Bureau of Manufacturers, Dept. Commerce and Labor, Washingtaon, D. C., referring to File No. 6007.

VENTILATING APPARATUS, ETC.—South Africa.—Bids will be received until noon, March 1, by the Controller and Auditor-General, Parliament St., Capetown, for the installation of a system of ventilation, heating and cooling in the new Law Courts at Capetown. Further information can be obtained from Hawke & McKinlay, Capetown, or from the office of the High Commissioner for the Union of South Africa, 72, Victoria St., London, S. W.

WIRELESS TELEGRAPHY INSTALLATION.—Australia.—Bids will be received until March 14 by the Deputy Postmaster General at the capital of the six states and by the High Commissioner for the Commonwealth of Australia, 72 Victoria St., Westminster, London, England, for the installation of wireless telegraphy at Thursday Island, Australia, and Port Moresby Papua (New Guinea). Address Bureau of Manufacturers, Dept. Commerce and Labor, Washington, D. C., referring to file No. 6018.

HOSPITAL AND MEDICAL SCHOOL.—Argentine Republic.—A hospital and medical school will be constructed at Rosario. Plans and designs are asked until April 20, by the Secretary of the Building Commission, Rosario. The Commission will award the following prizes to the three best presented: First prize, $12,000; second prize, $8,000; third prize, $5,000. Copies of the conditions and plans can be obtained by American architects upon application to the Bureau of Manufacturers, Department of Commerce and Labor, Washington, D. C., referring to File No. 5083.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

TRADE CATALOGS, Forest Hills, L. I.—M. Horgan, Asst. Engr. Sage Foundation Homes Co., desires catalogs of concerns in the engineering and contracting line.

ASPHALT MACHINERY, Salt Lake City, Utah.—Harold Berrum, 317 C St., wishes to communicate with some concern prepared to furnish machinery for the manufacture of asphalt roofing.

TRADE CATALOGS, Rome, Ga.—We are asked by Kieffer Lindsay, Assoc. M. Am. Soc. C. E., to request manufacturers in the engineering and contracting field to send him their literature.

STEAM & HAND POWER PRESSES, Edinburgh, Scotland. W. McKie, 33 Claremont Terrace, writes us to request American manufacturers of steam and hand-power presses for tin working, for their catalogs.

EXAMINATIONS.

AID.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 8-9, to secure eligibles from which to make certification to fill about eleven vacancies in the position of deck officer and two vacancies in the position of aid, and similar vacancies as they may occur in the position of Aid and Deck Officer in the Coast and Geodetic Survey. The examination will consist of the subjects mentioned below, weighted as indicated: Mathematics, 15 points; practical computations, 15 points; astronomy, 10 points; physics, 10 points; surveying, 10 points; modern languages, 10 points; drawing and descriptive geometry, 10 points; training and experience, 20 points. Applicants must have reached their 18th, but not their 25th birthday. Examination form 1312.

TOPOGRAPHIC DRAFTSMAN AND COPYIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 8-9, to secure eligibles from which to make certification to fill a vacancy in the position of Topographical Draftsman, Coast and Geodetic Survey, Washington, D. C., $900 a year, and vacancies requiring similar qualifications as they may occur in any branch of the service, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer or promotion. The salary of the position of Topographic Draftsman ranges usually from $1,000 to $1,500 a year, and for Copyist Topographic Draftsman from $900 to $1,500 a year. The examination will consist of the subjects mentioned below, weighted as indicated: Topographic Draftsman: Drawing 35 points; lettering, 35 points; mathematics, 30 points. Copyist Topographic Draftsman: Drawing, 50 points; lettering, 50 points. Applicants must have reached their 18th birthday. Examination form 1312.

INDUSTRIAL NOTES.

ANNOUNCEMENT IS MADE that the Kilbourne & Clarke Co., manufacturers of electrical apparatus, Seattle, Wash., and one of the oldest electrical machinery firms on the Pacific Coast, has disposed of its business to Geo. B. Adair & Son Co. Mr. Frederick B. Simpson, formerly Ch. Engr. and Secy. of the old company, has been appointed Engr. and Gen. Mgr. of the Kilbourne & Clarke Mfg. Co., which makes a specialty of rotary converters, transformers for wireless telegraphy, as well as storage batteries and switchboards.

THE STEPHENS-ADAMSON MFG. CO., Aurora, Ill., makers of a line of conveying, elevating, screening and power transmitting machinery, have recently added to their organization Mr. G. H. Stephens. Mr. Stephens has been a factor in the conveying industry for over twenty years. He will be located in the New York office at 50 Church St., which is under the direction of Mr. J. C. Marcrum. Mr. Earl D. Stearns, who for the last two years has represented the company in the East, will have charge of the Chicago office, located in the First National Bank Bldg.

THE GOOD ROADS fever has seemingly taken a firm hold on both Canada and the United States. There is a movement on foot to construct a model highway from Winnipeg to Vancouver, traversing the provinces of Manitoba, Saskatchewan, Alberta and British Columbia. Another extensive plan which has been much discussed is the reconstruction of the old Cumberland Road, extending from St. Louis to the Atlantic seaboard. Pennsylvania is already repairing part of the road, and many counties of Ohio and Indiana are resurfacing the historic pike. Tennessee's proposed State highway would form part of another direct route between the Mississippi and the Eastern coast. Virginia already has many model pikes and it will probably not be many years until Memphians will be able to drive their autos across Tennessee and Virginia to Washington on model roads no less attractive than some of the famous thoroughfares of continental Europe.

THE GOVERNMENT PUBLISHED Jan. 18 the statement of this country's foreign trade in December and for the full year 1910, and the figures suggest exceedingly interesting comparisons. On the face of these returns, a very long step has been taken towards rectifying the unnatural position which for so many months existed in our outward and inward trade. In February, March, April, July and August of 1910, merchandise imports of the United States exceeded exports, and for the full eight months ending with August, a similar excess of imports was shown for the first time in 15 years; the export surplus for the same months, even in 1909, having footed up $59,000,000. But so heavily has the reported value of our export trade increased, since the close of August, that the export excess for the completed twelvemonth exceeds that of 1909 by no less than $48,900,000. In December alone, our export trade rose $54,600,000 over the year before, and in fact ran $19,000,000 beyond the showing of any previous month in the country's history.

Here, it would seem, we have the plainest possible demonstration of our country's reserve power in its foreign trade, and of its ability to regain ascendency, not, as in 1897 and 1898, through home economies and lower prices for our products, but through the outside world's necessities. Thus far, the outcome certainly shows all this. The really curious fact, about the December results especially, is that the cotton trade did very nearly all the work. Out of the $54,600,000 increase over 1909, in the month's total export trade, $49,100,000 was in cotton. This, again, is mainly a matter of prices; the Government's statement shows that we sent abroad, last month, nearly 200,000 bales less of cotton than in December, 1908, yet that the shipment was worth $30,000,000 more than that of two years ago. Had our cotton exports of 1910 been valued, in the Washington returns, the same as those of 1909, our foreign trade as a whole would have shown for the year the lowest export surplus since 1895. All this suggests some interesting questions. For instance, is our cotton trade now, and is it likely to continue, the absolute and permanent mainstay of our foreign trade position? Perhaps the coming twelvemonth will provide some sort of test in the matter.—"New York Evening Post."

COMMODITY PRICES SEEK LOWER LEVELS.—Prices for comomdities began to fall about the first quarter of the year, since when the decline has been steady but not very marked. This is best illustrated by "Bradstreet's" table of price index numbers, which shows a drop from 9.1996 at the end of March to 8.7919 in November, or 4.4%. This decline would have been greater but for the speculative activity in cotton on the short crop outlook and manipulation of coffee by valorized interests, which brought the price of these commodities up to almost record prices. The high prices of hogs and other animals contributed to offset the decline, while minor factors were the sharp rise of naval stores and linseed oil to the almost prohibitive price of $1 per gallon. As can be seen in the following table, comprising the index numbers of "Brandsteet's" and the leading authorities of London, the course of prices was very steady, being sustained by an expanding trade in both imports and exports. Of the effects of trusts, tariff, advanced wages, gold supply, inflation, taxes, etc., upon prices it is not the intention to speak in this article.

1910.	Bradstreet.	Sauer-beck.	Econo-mist.
November	8.7919	....	2.461
October	8.8841	77.2	2.453
September	8.9267	77.6	2.418
August	8.9519	78.2	2.467
July	8.8222	78.1	2.386
June	8.9246	76.9	2.362
May	8.9165	78.2	2.411
April	9.0385	78.5	2.413
March	9.1996	79.1	2.414
February	9.1113	78.1	2.396
January	9.0730	77.1	2.373
December, 1909	9.2310	76.3	2.390
1908	8.2949	*73	2.213
1907	8.9172	80	2.310
1906	8.3289	77	2.499
1905	8.0827	72	2.342
1904	7.9885	70	2.136
1903	8.0789	69	2.197
1902	7.6604	69	2.003
1901	7.5673	70	1.948
1900	8.0171	75	2.125
1899	6.8020	74	2.145

*Yearly average.

Large crops following full harvests of last year depressed cereals, while overproduction and diminishing consumption in iron, steel and copper created a discouraging position in these trades. In practically no instances have prices yet reached the low levels of 1906 and 1907, but they are below the quotations of 1908 and 1909.

The record breaking corn crop following last year's heavy yield was the chief cause for the decline in breadstuffs. Opening at the first of the year at 74½ cts. per bu., and holding fairly steady till August at 72½ cts., it closed at 52¾ cts., wheat acting relatively the same. Owing to the high price of hogs tallow has risen continuously through the year.

BREADSTUFFS.

The year 1910 has not been free from violent manipulation of wheat values. There have been one or two sensational price movements, resulting ultimately in a low range of values. The general tendency throughout the year has been downward because of the abundance of supplies, not only in this country, but the world over. An attempt was made to corner May wheat and to carry through a deal in September based upon the supposed damage to the winter wheat crop. When this proved untrue the deals were abandoned and in the latter part of May a sharp break occurred. In a few weeks, however, it was discovered that the spring wheat crop was seriously threatened by drouth and as the situation became more acute prices rose almost as rapidly as they had fallen, but although the spring wheat crop was damaged it was not as great as expected, and prices again dropped back, this time gradually until they are now close to the lowest levels of the year. Corn and oats have also declined on abundant yields.

The big corn crop has affected the price of provisions, while the demand has been restricted, beginning the high price agitation, and has not succeeded in getting back to normal. Hence there is a lower range of values in all hog products.

CHIEF INFLUENCES IN TEXTILS INDUSTRIES.

The features of the dry goods year were: A continued growth in the adoption of the corporate form of conducting all sorts of business enterprises, from the small storekeeper to the union of great department stores in different cities, and an orderly liquidation of the stocks of merchandise held in jobbers' and retailers' hands.

The course of the cotton goods market was dominated largely by the very high price of the staple, and while prices were relatively high they were still below the cost of production and merchants and mills were compelled to sell on close margins of profit or no margin at all. The curtailment of the output by cotton and cotton yarn mills reached to nearly 50% during the late months of the cotton crop year. Woolen and worsted fabrics sold much below the normal volume and mills curtailed steadily. The silk trade underwent a distinct revival and closed the year in better condition than has been seen in the trade in four years past. Many mills are sold ahead for seven months and merchants are finding the demand for silk velvets unparalleled. Linens alone of all the fabrics ruled firm and active and high all through the year and at the close were in excellent shape. Burlaps also underwent a revival in demand and a steady rise in value in the late months of the year.

All textile raw materials, save wool, advanced during the year. Flax went very high and flax yarns reached prohibitive levels. Jute advanced from £13 to £19 and higher; cotton went at one time to 20 cts. per lb. on speculative trading; raw silk went up from 50 cts. to 70 cts. per lb. on some grades. Domestic wools declined and toward the end of the year rallied a little, while foreign wools declined some, but not in such a proportion as the decline in domestics.

WHAT HAPPENED IN IRON, COPPER, TIN, ETC.

The depression in the iron trade at the close of 1910 seems to have belittled the record-breaking production and consumption, which was also a prominent trade feature, because the net result of the year's developments was unsatisfactory and the present outlook for the industry is discouraging. Largely because production was excessive prices of pig iron dropped $3 to $4 per ton net; crude steel fell $5 to $7 per ton, and finished steel products sustained declines of $1 to $4 per ton. To-day the industry is on a 50% basis, while in February full capacity was busy. Prices of finished material are pegged and competition stifled.

TOO MUCH COPPER.

The copper trade is also suffering from too much metal. Output during the year was again record-breaking and consumption was less than in 1906-7. Shifting of stocks from the United States to Europe and the transfer from visible to invisible s[illegible]s failed to cure the disease and pric[illegible]eded 1 ct. per lb. net in the twelve m[illegible]

The consumption of pig t[illegible]ms to have been greater than the suppl[illegible] prices have advanced 4¾ cts. per lb. ne[illegible] the natural movements have been perve[illegible]by a speculative syndicate which ha[illegible]trolled the world's markets.

Lead and spelter also hav[illegible] dominated by large combinations, but [illegible]s have receded slightly.

MOVEMENT IN GR[illegible]IES.

The advance of over 5 cts. [illegible]ffee during the year, or about 60%, for[illegible]s was in part due to short crops, bu[illegible]h manipulation a prime factor. Braz[illegible]d the whip hand and moderate stocks h[illegible]ccentuated the situation. The country [illegible]ghting the rise tended to perpetuate firm[illegible]ditions.

Naval stores were the sub[illegible] of a sharp rise, in the course of which [illegible]entine advanced from 50 cts. to 81 [illegible] and rosin from $4.40 to $6.60. Recei[illegible]t primary points were lighter, and as [illegible]nsiderable short interest in futures ex[illegible] the producer was able to get high pr[illegible]

UPWARD TREND IN D[illegible]GS.

The year in the drug mark[illegible]s been a very satisfactory one, both as [illegible]rds prices and demand. Values have [illegible]d upward in many important staples. G[illegible]rine is at record levels, opium has bee[illegible] a more settled basis and quinine st[illegible]. Minor items, as buchu leaves, gum a[illegible]etida and ergot, have attracted consider[illegible] attention because of high prices. Shella[illegible]s suffered some sharp advances and also d[illegible]ines owing to speculation.

Linseed oil has reached almos[illegible]prohibitive price levels and reached $1 dur[illegible] the summer. This caused active con[illegible]mption in other oils, which were enhance[illegible] value as a consequence.

In the hide market a scarcity [illegible] the common dry descriptions has been th[illegible] only feature of importance.

Crude rubber has had the most remarkable year perhaps of any commodity. Prices on standard Para grades reached the $3 level late in April, rising from 66 cts. in 18 months. The market has declined 50% since then, and is now on a comparatively steady basis.

UNPROFITABLE YEAR IN BUTTER AND EGGS.

Conditions in the butter market have changed very materially, and when the windup of this season's crop is effected the average of values will be found to be considerably below last year. Operators were slow to realize the changing conditions, and enough speculation existed during the summer months to make the cost of the storage accumulations entirely too high. Indeed the prices ruling during the height of production were on a winter basis, and have been exceeded only for short periods during the fall and winter. For just a little while in early November the market reached a profitable point, but it was followed by larger shipments from many sections where the trade in butter was seriously interfered with by oleomargarine, which has secured a stronger place in the markets of the country, and in consequence the reduction in cold storage stocks has gone on more slowly than usual. At least 225,000 packages go over into the new year, and every indication points to severe losses before the crop is closed out.

PLAIN LETTERING

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SUCTION WELL.

South River, N. J.

Sealed bids, addressed to Charles Anderson, Borough Clerk, and accompanied by a certified check for five (5%) per centum of the total amount bid, made payable to George Allgair, Borough Collector, with no conditional endorsements, will be received until 8:00 P. M., Monday, Feb. 13, 1911, and publicly opened at a meeting of the Borough Council, to be held at that time and date in Borough Hall, South River, N. J., for the enduring construction of a Suction Well to be built of brick and concrete 25 feet in diameter and 33 feet deep. The Borough Council reserves the right to reject any or all bids.

Dated Jan. 9, 1911.

JOSEPH MARK, Mayor.
CHARLES ANDERSON, Clerk.
W. W. YOUNG,
Consulting Engineer.

Situations Open

WANTED—Experienced draftsman, familiar with rolling mill machinery and furnaces. State past experience and salary wanted. Address LOCK BOX 202, Massena, N. Y. 3-2